
EGU 2008 Meeting Programme

Planetary & Solar System Sciences

Monday

PS2.1 Exploring the Solar System - Missions and Techniques

Convener: Muller, C.
Co-Convener(s): Falkner, P., Foing, B.
Lecture Room 13
Chairperson: C. MULLER

17:30–17:45; EGU2008-A-05213; PS2.1-1MO5O-001
Chassefiere, E.; THE EVE TEAM
European Venus Explorer : an in-situ mission to Venus using a balloon platform (solicited)

17:45–18:00; EGU2008-A-11974; PS2.1-1MO5O-002
Balint, T.S.; Cutts, J.A.; Kolawa, E.A.; Kwok, J.H.
Mitigating extreme environments for long-lived Venus in-situ missions

18:00–18:15; EGU2008-A-02792; PS2.1-1MO5O-003
Boehnhardt, H.; Nathues, A.; Harris, A.; Astex Study Team, The
ASTEX – A study of a mission to visit two near-Earth asteroids

18:15–18:30; EGU2008-A-05453; PS2.1-1MO5O-004
Smith, D. E.; Zuber, M. T.
Observing the precession of Mars from orbit

18:30–18:45; EGU2008-A-09775; PS2.1-1MO5O-005
Schmitz, N.; Coates, A.; Griffiths, A.; Hauber, E.; Jaumann, R.; Michaelis, H.
The High Resolution Channel of the ExoMars PanCam - Science and Technology

18:45–19:15; EGU2008-A-08944; PS2.1-1MO5O-006
Lebreton, J.-P.
In Situ Exploration of Titan: Lessons Learned From Huygens (solicited)

19:15 END OF SESSION

PS4.0 Outer planets and satellites

Convener: Coustenis, A.
Co-Convener(s): Atreya, S.
Lecture Room 15
Chairperson: N.N.

8:30–8:45; EGU2008-A-11071; PS4.0-1MO1O-001
Johnson, T.
Geophysics of icy Saturnian satellites (solicited)

8:45–9:00; EGU2008-A-08705; PS4.0-1MO1O-002
Lebreton, J.-P.
Recent Results On Titan From Huygens (solicited)

9:00–9:15; EGU2008-A-02883; PS4.0-1MO1O-003
Lopes, R.M.; Stofan, E.R.; Wood, C.; Radebaugh, J.; Kirk, R.; Lorenz, R.; Lunine, J.; Wall, S.D.; Mitchell, K.L.; Mitri, G.
New views of Titan's surface geology from the Cassini RADAR (solicited)

9:15–9:30; EGU2008-A-03759; PS4.0-1MO1O-004
Jaumann, R.; VIMS Titan Team
Erosion on Titan (solicited)

9:30–9:45; EGU2008-A-08360; PS4.0-1MO1O-005
Janssen, M.A.; Lorenz, R.D.; West, R.; **Paganelli, F.;** Stiles, B.; Wall, S.D.; Callahan, P.; Kirk, R.L.; Roth, L.; Anderson, Y.; the Cassini Radar Team
Summary on relative and absolutely calibrated 2-cm wavelength radiometry of Titan

9:45–10:00; EGU2008-A-07523; PS4.0-1MO1O-006
Rannou, P.; Lemouélic, S.; Sotin, C.; Clark, R.; Barnes, J.; Brown, R.; Baines, K.; Buratti, B.; Drossart, P.; Nicholson, P.
The north polar region of Titan with VIMS instrument

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-11561; PS4.0-1MO2O-001
Nelson, R. M.; Kamp, L.; Lopes, R.M.C.; Matson, D. L.; Kirk, R. L.; Hapke, B. W.; Boryta, M/ D.; Leader, F.; Smythe, W. D.; Baines, K. H.; the Cassini VIMS Titan Surface Change Team
Saturn's Titan: Reports Suggesting Surface Activity from Cassini VIMS and Radar Observations

10:45–11:00; EGU2008-A-05368; PS4.0-1MO2O-002
McCord, T. B.; Hayne, P.; Combe, J-Ph.; Hansen, G. B.
Titan: The case for CO₂ on the surface

11:00–11:15; EGU2008-A-08780; PS4.0-1MO2O-003
Sotin, C.; Le Corre, L.; LeMouélic, S.; Barnes, J.W.; Brown, R.H.; Jaumann, R.; Soderblom, J.; Baines, K.; Buratti, B.; Clark, R.
CASSINI/VIMS observations of cryo-volcanic features on Titan: implications for the methane cycle (solicited)

11:15–11:30; EGU2008-A-04430; PS4.0-1MO2O-004
Davies, A. G.; **Matson, D. L.;** Castillo, J. C.; Johnson, T. V.; Sotin, C.
Cryolava Emplacement on Titan and Resulting Morphology: Modelling Strategy (solicited)

11:30–11:45; EGU2008-A-04876; PS4.0-1MO2O-005
Atreya, S.K.; Lunine, J.I.; Niemann, H.B.; Wilson, E.H.
Where have Titan's ethane oceans gone? (solicited)

11:45–12:00; EGU2008-A-10849; PS4.0-1MO2O-006
Iess, L.; Armstrong, J.W.; Asmar, S.W.; Graziani, A.; Jacobson, R.; Mackenzie, R.; Racioppa, P.; Rappaport, N.; Tortora, P.
The gravity field of Titan from the first three Cassini flybys

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-02912; PS4.0-1MO3O-001
Flasar, F. M.; Schinder, P. J.; Marouf, E. A.; Achterberg, R. K.; French, R. G.; McGhee, C. A.; Kliore, A. J.; Rappaport, N. J.
The thermal structure of Titan's atmosphere (solicited)

13:45–14:00; EGU2008-A-01826; PS4.0-1MO3O-002
Coustenis, A.; CIRS Investigation Team, The; TandEM Consortium, The
Titan's chemical composition from current and future exploration (solicited)

14:00–14:15; EGU2008-A-04963; PS4.0-1MO3O-003
Liang, MC; Gurwell, MA; Yung, YL
CO and D/H: Evolution and Origin of Titan's Atmosphere

14:15–14:30; EGU2008-A-02920; PS4.0-1MO3O-004
Waite, J.H.
Titan and Enceladus: Through the Eyes of the Cassini Ion Neutral Mass Spectrometer (solicited)

14:30–14:45; EGU2008-A-04081; PS4.0-1MO3O-005
Najib, D.; **Nagy, A.;** Toth, G.; Tenishev, V.; Jia, Y.; Ma, Y.; Khurana, K.; Coates, A.
Numerical simulations of the interaction of Enceladus' interaction with Saturn's magnetosphere using a 3D multi-species, Hall MHD model.

14:45–15:00; EGU2008-A-11313; PS4.0-1MO3O-006
Sittler, E; Hartle, R; Cooper, J; Johnson, R; Coates, A
Heavy Ion Formation in Titan's Ionosphere, Magnetospheric Introduction of Free Oxygen and Source of Titan's Aerosols?

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-09860; PS4.0-1MO4O-001
Hartle, R.; Sittler, E.; Lipatov, A.
Ion escape from the ionosphere of Titan

15:45–16:00; EGU2008-A-10293; PS4.0-1MO4O-002
Lorenz, R.; Waite, J. H.
Key Titan Science Drivers for the Titan Explorer and TandEM Missions (solicited)

16:00–16:15; EGU2008-A-02312; PS4.0-1MO4O-003
Encrenaz, Th.; Owen, T.
Jupiter and the Giant Planets (solicited)

16:15–16:30; EGU2008-A-04375; PS4.0-1MO4O-004
Gulkis, S.; Adams, E.Y.; Allison, M.D.; Atreya, S.K.; Bolton, S.; Janssen, M.A.; Kamp, L.W.; Oyafuso, F.A.
Water and Ammonia Abundances with Juno Microwave Radiometer

16:30–16:45; EGU2008-A-07240; PS4.0-1MO4O-005
Krupp, N.; Lagg, A.; Roelof, E.C.; Woch, J.; Khurana, K.K.
Global flows of energetic ions in the Jovian magnetosphere: Galileo EPD measurements 1996-2003

16:45–17:00; EGU2008-A-05664; PS4.0-1MO4O-006
West, R
Clouds and Haze on Saturn (solicited)

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-05919; PS4.0-1MO5O-001
Baines, K.; Momary, T.; Roos-Serote, M.; Showman, A.; Atreya, S.; Brown, R.; Buratti, B.; Clark, R.; Nicholson, P.
Saturn's zonal structure at depth: Dimensional characteristics and constraints on temporal variability over 3 years of Cassini/VIMS mapping (solicited)

17:45–18:00; EGU2008-A-05967; PS4.0-1MO5O-002
Khurana, K. K.; Mitchell, D. G.; Arridge, C.S.; Dougherty, M. K.; Russell, C. T.; Paranicas, C.; Krupp, N.
The mystery of rotational signals from Saturn's magnetosphere revealed (solicited)

18:00–18:15; EGU2008-A-04494; PS4.0-1MO5O-003
Kliore, A.J.; Nagy, A.F.; Flasar, F.M.; Marouf, E.A.; Anabtawi, A.
Recent Cassini radio science observations of the ionosphere of Saturn

18:15–18:30; EGU2008-A-03995; PS4.0-1MO5O-004
Carbary, J.; **Krimigis, S.;** Mitchell, D.; Paranicas, C.; Brandt, P.
ENA dynamics at Saturn

18:30–18:45; EGU2008-A-11138; PS4.0-1MO5O-005
Mainzer, A.; Hines, D.; Burgdorf, M.; Hammel, H.; Moses, J.; Orton, G.
Spitzer mid-infrared spectroscopy of Uranus at equinox

18:45–19:00; EGU2008-A-04853; PS4.0-1MO5O-006
Orton, G.; Hammel, H.; Geballe, T.; Mainzer, A.; Line, M.; Fletcher, L.; Burgdorf, M.; Moses, J.; Meadows, V.
Mid-infrared imaging of Neptune's stratospheric emission from Gemini and spectroscopy from the Spitzer IRS (solicited)

19:00 END OF SESSION

PS8 Planetary, Solar and Heliospheric Radio Emissions – Posters

Convener: Galopeau, P.
Co-Convener(s): Boudjada, M.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0626; EGU2008-A-05897; PS8-1MO3P-0626
Hillan, D.S.; **Cairns, I.H.;** Robinson, P.A.; Florens, M.S.L
Comparison of Type II Theory with Observation for the 24-26 August 1998 Event

XY0627; EGU2008-A-09188; PS8-1MO3P-0627
Melnik, V. N.; Rucker, H. O.; Konovalenko, A. A.; Abranin, E. P.; Dorovskyy, V. V.; Stanislavskyy, A. A.; Lecacheux, A.
Fine structure of decameter Type IV bursts

XY0628; EGU2008-A-08201; PS8-1MO3P-0628
Konovalev, A.A.; Rucker, H.O.; Lecacheux, A.; Zarka, Ph.; Griessmeier, J.-M.; Melnik, V.N.; Litvinenko, G.V.; Abranin, E.P.; Kolyadin, V.L.; Zakharenko, V.V.; KONOVALENKO
The search of planetary and stellar decameter wavelength radio emissions by the use of the world largest radio telescope

XY0629; EGU2008-A-08841; PS8-1MO3P-0629
MacDowall, R.; **Gopalswamy, N.;** Lazio, J.; The ROLSS Team
Radio Observatory for Lunar Sortie Science (ROLSS)

XY0630; EGU2008-A-06014; PS8-1MO3P-0630
Skalsky, A.; Mogilevsky, M.; Sadovski, A.; Zelenyi, L.; Birukov, V.
Search for terrestrial-like exoplanets: low frequency radioastronomy at Moon

XY0631; EGU2008-A-11129; PS8-1MO3P-0631
Mutel, R. L.; Christopher, I. W.
Statistical Distribution of AKR Sources on the Polar Caps

XY0632; EGU2008-A-09820; PS8-1MO3P-0632
Lamy, L.; Zarka, P.; Cecconi, B.; Prangé, R.
Diurnal modulation of the AKR

XY0633; EGU2008-A-06525; PS8-1MO3P-0633
Romantsova, T.; Panchenko, M.; Mogilevsky, M.; Hanasz, J.; Schreiber, R.; Rucker, H.; Birukov, V.
Localization of AKR source using observation from two satellites

XY0634; EGU2008-A-00343; PS8-1MO3P-0634

Arkhypov, O.V.; Rucker, H.O.

S-bands of Jovian decametric emission

XY0635; EGU2008-A-00345; PS8-1MO3P-0635

Arkhypov, O.V.; Rucker, H.O.

Sub-hour modulation of L-component of Io-related Jovian decametric emission

XY0636; EGU2008-A-03441; PS8-1MO3P-0636

Litvinenko, G.V.; Rucker, H.O.; Konovalenko, A.A.; Lecacheux, A.

Complex types of modulation events observed in the dynamic spectra of the Jovian decameter emission

XY0637; EGU2008-A-06541; PS8-1MO3P-0637

Boudjada, M.Y.; Galopeau, P.H.M.; Lecacheux, A.

Jovian radio emissions observed by Cassini spacecraft during the Jupiter flyby

XY0638; EGU2008-A-09362; PS8-1MO3P-0638

Boudjada, M.Y. ; Galopeau, P.H.M.; Shaposhnikov, V.V.; Rucker, H.O.; Korobkov, S.V.

Physical observational aspects of Jovian millisecond radio bursts

XY0639; EGU2008-A-10765; PS8-1MO3P-0639

Galopeau, P.H.M.; Boudjada, M.Y.; Zaitsev, V.V.; Shaposhnikov, V.E.

Active longitudes and Io-controlled decametric radio emissions of Jupiter

XY0640; EGU2008-A-02890; PS8-1MO3P-0640

Menietti, J.; Ye, S.; Fischer, G.; Hospodarsky, G.; Kurth, W.; Gurnett, D.; Cecconi, B.; Zarka, P.

Source of Saturn kilometric radiation "controlled" by Titan

XY0641; EGU2008-A-04798; PS8-1MO3P-0641

Taubenschuss, U.; Macher, W.; Oswald, T.; Rucker, H. O.; Karlsson, R.

Direction finding applied to Cassini RPWS data

XY0642; EGU2008-A-04420; PS8-1MO3P-0642

Fischer, G.; Ye, S.; Gurnett, D.A.; Kurth, W.S.; Wang, Z.
On the polarization of Saturn narrowband radio emissions

XY0643; EGU2008-A-04397; PS8-1MO3P-0643

Ye, S.; Gurnett, D.; Fischer, G.; Menietti, J.D.; Kurth, W.; Wang, Z.; Hospodarsky, G.; Rymer, A.; Young, D.; Coates, A.

Saturnian narrowband radio emissions: In-situ studies of the source

XY0644; EGU2008-A-09924; PS8-1MO3P-0644

Lamy, L.; Cecconi, B.; Prangé, R.; Zarka, P.; Clarke, J.T.
Comparison of Saturnian Kilometric Radiation (SKR) sources positions and UV aurorae

XY0645; EGU2008-A-09866; PS8-1MO3P-0645

Lamy, L.; Hess, S.; Zarka, P.; Cecconi, B.; Prangé, R.
Modelling of the Saturnian Kilometric Radiation (SKR)

XY0646; EGU2008-A-09679; PS8-1MO3P-0646

Cecconi, B.; Zarka, P.; Lamy, L.

Goniopolarimetric study of the SKR using Cassini radio data during a high orbital inclination flyby

XY0647; EGU2008-A-09350; PS8-1MO3P-0647

Griessmeier, J.-M.; Zarka, P.; Konovalenko, A.; Fischer, G.; Ryabov, B.; Vavriv, D.; Ryabov, V.; Rucker, H.; Ravier, P.; Sidorchuk, M.; Radio-Exopla collaboration

Ground based detection and study of Saturn Electrostatic Discharges

XY0648; EGU2008-A-01272; PS8-1MO3P-0648

Kochemasov, G.

Wave modulations in the Solar system bodies and their radio emissions

Tuesday

PS2.1 Exploring the Solar System - Missions and Techniques

Convener: Muller, C.

Co-Convener(s): Falkner, P., Foing, B.

Lecture Room 11

Chairperson: B. FOING

8:30–8:45; EGU2008-A-05932; PS2.1-1TU10-001

Spilker, T.; Strange, N.; Elliott, J.; Reh, K

Challenges of exploring Titan and Enceladus with a single mission

8:45–9:00; EGU2008-A-08975; PS2.1-1TU10-002

Bentley, M. S.; Hannemann, S.; Moon, S. G.; Lampridis, D.; Falkner, P.; Wielders, A.; Wielinga, K.; Harris, J.; Kraft, S.
Lessons learned from a detailed design study of a Highly Integrated Payload Suite for Europa

9:00–9:15; EGU2008-A-01483; PS2.1-1TU10-003

de Vera, J.P.P.; Bartlett, S.; Baticle, B.; Bodendorfer, M.; Byrne, P.; Doule, O.; Heydenreich, T.A.; Johnsson, A.; Magiopoulos, I.; Martinez-Arnaiz, R.M.; The Green Team of the SummerSchoolAlpbach
EUROX (Europa Explorer), an astrobiology mission concept to the jovian icy moon Europa

9:15–9:30; EGU2008-A-01158; PS2.1-1TU10-004

Chela-Flores, J.; Kumar, N.; Seckbach, J.; Tewari, V.C.
Distinguishing between signatures of past life and nonlife

9:30–9:45; EGU2008-A-11893; PS2.1-1TU10-005

Foing, B.H.; ICEUM9 participants, & ICEUM9 participants
Sorrento Lunar Declaration, 9th ILEWG Conference on Exploration and Utilisation of the Moon (ICEUM9)

9:45 END OF SESSION

PS2.1 Exploring the Solar System - Missions and Techniques – Posters

Convener: Muller, C.

Co-Convener(s): Falkner, P., Foing, B.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: C. MULLER

XY0515; EGU2008-A-04551; PS2.1-1TU2P-0515

Coustonis, A.; TandEM Consortium, The
TandEM: A mission for Titan and Enceladus in situ exploration within ESA's Cosmic Vision

XY0516; EGU2008-A-01931; PS2.1-1TU2P-0516

Reh, K.; Lorenz, R.; Waite, H.; Leary, J.; Lockwood, M.; Elliott, J.; Hall, J.; Spilker, T.; Strange, N.

Concepts for a Titan Explorer

XY0517; EGU2008-A-01947; PS2.1-1TU2P-0517
Elliott, J.; Hall, J; Munk, M; Reh, K; Spilker, T
Technologies for Titan exploration

XY0518; EGU2008-A-06696; PS2.1-1TU2P-0518
Pirard, B.; Ryan, J. M.; Flueckiger, E. O.; Bravar, U.
Study of a fast neutron telescope for remote planetary
neutron spectroscopy

XY0519; EGU2008-A-06921; PS2.1-1TU2P-0519
Janhunen, P.; **Luntama, J-P.;** Toivanen, P.; Sandroos, A.
Summary and status report of the electric solar wind sail:
Principles and applications

XY0520; EGU2008-A-12069; PS2.1-1TU2P-0520
Muller, C.; Moreau, D.
History of the “Mars sample return”: orbiting quarantine
facilities and shuttles.

XY0521; EGU2008-A-02125; PS2.1-1TU2P-0521
Barthelemy, M.; Heather, D.J.; Vazquez, J.L.; Wirth, K.;
Manaud, N.; Ortiz, I.; Arviset, C.; Fernandez, M.
The PSA: Planetary Science Archive

PS2.5 Experimental Planetology - Space simulations in laboratory

Convener: Colangeli, L.
Co-Convener(s): Sears, D., Seiferlin, K.
Lecture Room 8
Chairperson: N.N.

13:30–13:45; EGU2008-A-02126; PS2.5-1TU3O-001
Falenty, A.; Kuhs, W.F.
Laboratory studies on the formation kinetics of gas hydrates
at pressures and temperatures of planetary interest

13:45–14:00; EGU2008-A-08075; PS2.5-1TU3O-002
Piccioni, G.; Snels, M.; Adriani, A.
Laboratory set-up for optical property characterization of
gases in extreme planetary conditions

14:00–14:15; EGU2008-A-08330; PS2.5-1TU3O-003
Fonti, S.; Montanaro, S.; Politi, R.; Blanco, A.; Marra, A.C.;
Marzo, G.A.; Orofino, V.
Reflectance spectra of particulate mixtures in the near and
medium infra-red spectral range: part II (solicited)

14:15–14:30; EGU2008-A-11607; PS2.5-1TU3O-004
Smythe, W. D.; Boryta, M.; Nelson, R. M.
In-situ measurements of total carbon

14:30–14:45; EGU2008-A-08548; PS2.5-1TU3O-005
Rott, M.; Koschny, D.; **Igenbergs, E.**
Hypervelocity impact laboratory simulation for future
interplanetary missions (solicited)

14:45–15:00; EGU2008-A-11865; PS2.5-1TU3O-006
Merrison, J.P.; Gunnlaugsson and, H.P.; Nørnberg, P.
A Forthcoming European Mars Simulation Wind Tunnel
Facility. (solicited)

15:00 END OF SESSION

PS2.5 Experimental Planetology - Space simulations in laboratory – Posters

Convener: Colangeli, L.
Co-Convener(s): Sears, D., Seiferlin, K.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0522; EGU2008-A-04899; PS2.5-1TU4P-0522
Marzo, G. A.; Roush, T. L.; Hogan, R. C.
Clustering of laboratory spectral data: evaluating applica-
tions to interpretation of planetary spectra

XY0523; EGU2008-A-07166; PS2.5-1TU4P-0523
Usovicz, B.; Marczewski, W.; Usovicz, J.B.
The thermal conductivity of the porous soil media

XY0524; EGU2008-A-09393; PS2.5-1TU4P-0524
De Angelis, E.; **Mangano, V.;** Vannaroni, G.; Orsini, S.; Di
Lellis, A. M.; Bruno, R.; Parisi, M.; the ELENA team
Laboratory investigation of the ion sputtering process on
airless body surfaces

XY0525; EGU2008-A-10975; PS2.5-1TU4P-0525
Wawrzaszek, R.; Seweryn, K.; Dabrowski, B.; Ba-
naszkievicz, M.; Grygorczuk, J.; Neal, C. R.; Huang, S.;
Kömle, N.
Modeling the passive and active thermal measurements
including heat properties of the mole-type sensor carrier

XY0526; EGU2008-A-08119; PS2.5-1TU4P-0526
Montanaro, S.; Fonti, S.; Politi, R.; Blanco, A.; Marra, A.
C.; Marzo, G. A.; Orofino, V.
Reflectance spectra of particulate mixtures in the near and
medium infra-red spectral range: part I.

XY0527; EGU2008-A-09225; PS2.5-1TU4P-0527
Helbert, J.; **Maturilli, A.**
The heat is on – in the Planetary Emissivity Laboratory
(PEL) at DLR Berlin

PS3.4 Lunar science and exploration

Convener: Foing, B.
Lecture Room 11
Chairperson: FOING, B.H.

Science and recent lunar results

10:30–10:45; EGU2008-A-10947; PS3.4-1TU2O-002
Lognonne, P.; Lefeuvre, M.; Johnson, C.
Impacts frequency on the Moon and the Moon micro-seismic
noise

10:45–10:50; EGU2008-A-11380; PS3.4-1TU2O-003
Combe, J-Ph.; Le Mouélic, S.; Kramer, G. Y.; McCord, T.
B.
Mineralogy of the Moon investigated from spectral analysis
of Clementine UVVIS and NIR data

10:50–11:05; EGU2008-A-10769; PS3.4-1TU2O-004
Neukum, G.
The lunar impact-crater production size-frequency distribu-
tion and cratering chronology, revisited

11:05–11:10; EGU2008-A-07989; PS3.4-1TU2O-005
Hempel, S.; Knapmeyer, M.; Oberst, J.
Investigations of deep quakes on the lunar far side

11:10–11:15; EGU2008-A-11236; PS3.4-1TU2O-006
Fidani, C.
Tlp versus moonquakes to understand earthquake associated
phenomena

11:15–11:20; EGU2008-A-06617; PS3.4-1TU2O-007

Ziethe, R.; Hiesinger, H.

Duration and Extent of Lunar Volcanism: Comparison of 3D Convection Models to Mare Basalt Ages

11:20–11:25; EGU2008-A-03222; PS3.4-1TU2O-008

Cremonese, G.; Marchi, S.; Martellato, E.; Massironi, M.; Borin, P.; Capria, M.T.; Carolo, E.; Giacomini, L.; Motola, S.

New model for age determination of lunar regions

11:25–11:30; EGU2008-A-05136; PS3.4-1TU2O-009

Lu, Ya.; Shevchenko, V.

Correlations between iron distribution and surface morphology of crater Kepler area

11:30–11:35; EGU2008-A-09639; PS3.4-1TU2O-010

Sarantos, M.; Killen, R.

A quantitative model of the lunar sodium emission

11:35–11:40; EGU2008-A-06001; PS3.4-1TU2O-011

Sadovski, A.; Skalsky, A.

The moon plasma environment: present understanding and models

Synthesis of SMART-1 results

11:40–11:55; EGU2008-A-11819; PS3.4-1TU2O-013

Foing, B.H.; Grieger, B.; Koschny, D.; Josset, J.L.; Beauvivre, S.; Ellouzi, M.; Peters, S.; Almeida, M.; Frew, D.; The SMART-1 STWT Team, N.; The SMART-1 STWT Team
Synthesis of SMART-1 lunar results: Science and Exploration

11:55–12:10; EGU2008-A-11891; PS3.4-1TU2O-014

Peters, S.; Foing, B.H.; Koschny, D.; Rossi, A.; Josset, J.L.; Beauvivre, S.; SMART-1 AMIE Team, & SMART-1 AMIE Team
SMART-1/Clementine study of Humorum and Procellarum Basins

12:10 LUNCH BREAK

Chairperson: ZUBER, M.

13:30–13:35; EGU2008-A-07355; PS3.4-1TU3O-001

Grieger, B.; Almeida, M.; Beauvivre, S.; Dougnac, V.; Foing, B. H.; Josset, J.-L.; Koschny, D.; Martinez, S.
Coverage, resolution and calibration of SMART-1/AMIE images

13:35–13:50; EGU2008-A-11395; PS3.4-1TU3O-002

Josset, J.-L.; Beauvivre, S.; Cerroni, P.; De Sanctis, M.C.; Erard, S.; Chevrel, S.; Barucci, M.; Koschny, D.; Grieger, B.; Despan, D.; AMIE Team
AMIE SMART-1 New Views and Analysis of the Lunar Poles (solicited)

13:50–13:55; EGU2008-A-06625; PS3.4-1TU3O-003

Kaydash, V.; Kreslavsky, M.; Shkuratov, Yu.; Gerasimenko, S.; Pinet, P.; Chevrel, S.; Josset, J.-L.; Beauvivre, S.; Foing, B.; SMART-1 team, AMIE
Photometric anomalies of the lunar surface and the lunar opposition effect from AMIE SMART-1 data

13:55–14:00; EGU2008-A-04099; PS3.4-1TU3O-004

Despan, D.; Erard, S.; Barucci, A.; Josset, J.-L.; Beauvivre, S.; Chevrel, S.; Pinet, P.; Koschny, D.; Almeida, M.; Grieger, B.; the AMIE team
AMIE/SMART-1 Mapping of Lunar Poles and Other Regions of Interest

First results from Kaguya

14:00–14:15; EGU2008-A-01969; PS3.4-1TU3O-006

Kato, M.; Takizawa, Y.; Sasaki, S.

Present status of Kaguya(SELENE) mission and science goals (solicited)

14:15–14:30; EGU2008-A-05821; PS3.4-1TU3O-007

Sasaki, S.; Namiki, N.; Hanada, H.; Iwata, T.; Kawano, N.; Matsumoto, K.; Noda, H.; RSAT/VRAD Group, A.; RSAT/VRAD Group

New lunar gravity field from SELENE (KAGUYA) gravity experiment using two subsatellites

14:30–14:45; EGU2008-A-04503; PS3.4-1TU3O-008

Noda, H.; Araki, H.; Tazawa, S.; Ishihara, Y.; Migita, E.; Kawano, N.; Sasaki, S.; Tsubokawa, T.; Kamiya, I.; Oberst, J.

The First Global Lunar Topography Mapping by KAGUYA (SELENE) Laser Altimeter (LALT)

14:45–15:00; EGU2008-A-12202; PS3.4-1TU3O-009

Haruyama, J.; Ohtake, M.; Matunaga, T.; Morota, T.; Honda, C.; Torii, M.; Yokota, Y.; Ogawa, Y.; Abe, M.; LISM working group

First Results from LISM on Kaguya

15:00–15:15; EGU2008-A-04850; PS3.4-1TU3O-010

d’Uston, C.; Nobuyuki, N.; Kaguya-GRS team

Preliminary observations of gamma ray emissions from the Moon surface by the Gamma-Ray Spectrometer on SELENE (KAGUYA)

15:15 COFFEE BREAK

Chairperson: KATO, M.

15:30–15:35; EGU2008-A-03758; PS3.4-1TU4O-001

Ono, T.; Kumamoto, A.; Yamaguchi, Y.; Yamaji, Y.; Kobayashi, T.; Kasahara, Y.; Nakagawa, H.; Oshigami, S.; Oya, H.

Initial results of the Lunar Radar Sounder (LRS) experiment on-board the KAGUYA (Selene) spacecraft

15:35–15:40; EGU2008-A-09372; PS3.4-1TU4O-002

Yokota, S.; Saito, Y.; Asamura, K.; Tanaka, T.; Nishino, M.N.; Yamamoto, T.I.; Tsunakawa, H.; Terasawa, T.; KAGUYA MAP TEAM
Anomalous ion acceleration around the moon:Initial observation of MAP-PACE on KAGUYA(SELENE)

15:40–15:55; EGU2008-A-08309; PS3.4-1TU4O-003

Saito, Y.; Yokota, S.; Asamura, K.; Tanaka, T.; KAGUYA MAP-PACE TEAM
Initial report on the lunar plasma measurement by MAP-PACE onboard KAGUYA (SELENE)

Missions under preparation

15:55–16:10; EGU2008-A-11391; PS3.4-1TU4O-005

Grande, M.; Maddison, B J; Sreekumar, P; Huovelin, J; Kellett, B J; Howe, C J; Crawford, I A; The C1XS Team
The C1XS X-ray Spectrometer on Chandrayaan-1

16:10–16:25; EGU2008-A-11165; PS3.4-1TU4O-006

Vondrak, R.; The LRO Project Science Working Group
Lunar Reconnaissance Orbiter: Mission Overview (solicited)

16:25–16:30; EGU2008-A-10481; PS3.4-1TU4O-007

Sanin, A.; Mitrofanov, I.; Boynton, W.; Evans, L.; Harshman, K.; Trombka, J.; Litvak, M.; Sagdeev, R.; Shevchenko, V.; Starr, R.
Lunar Exploration Neutron Detector (LEND) for NASA Lunar Reconnaissance Orbiter

16:30–16:45; EGU2008-A-05562; PS3.4-1TU4O-008
Zuber, M.; Smith, D.; Alkalai, L.; Lehman, D.
The GRAIL gravity mission to the Moon (solicited)

16:45–17:00; EGU2008-A-03809; PS3.4-1TU4O-009
Jaumann, R.; LEO Team
Lunar Exploration Orbiter LEO (solicited)

17:00–17:05; EGU2008-A-02671; PS3.4-1TU4O-010
Flechtner, F.; Neumayer, K.H.; Kusche, J.; Schaefer, W.;
Sohl, F.
Simulation study for the determination of the lunar gravity
field from PRARE-L tracking onboard the German LEO
mission

17:05–17:10; EGU2008-A-04983; PS3.4-1TU4O-011
Shevchenko, V.
Russian project Luna-Glob: goals and status

17:10–17:15; EGU2008-A-11545; PS3.4-1TU4O-012
REN, Q.Y.; WANG, S.J.; ZHU, G.W.; LIANG, J.B.;
ZHANG, X.G.; ZEN, L
Ion Analyzer Experiment in Near-Moon Space Environment
Exploration

17:15 COFFEE BREAK

Chairperson: N.N.

Precursors, landers and rovers

17:30–17:45; EGU2008-A-10876; PS3.4-1TU5O-002
Walker, R.
The ESMO Mission: Education, Outreach and Science
(solicited)

17:45–18:00; EGU2008-A-08855; PS3.4-1TU5O-003
Gowen, R. A.; UK Penetrator Consortium
An update on the MoonLite Lunar mission

18:00–18:05; EGU2008-A-12209; PS3.4-1TU5O-004
Foing, B.H.; ILEWG members
Intercalibration, and data integration between lunar missions

18:05–18:20; EGU2008-A-03423; PS3.4-1TU5O-005
Koschny, D.; Crawford, I.; Houdou, B.; Kempf, S.;
Lognonne, P.; Pradier, A.; Ricci, C.; Vaujour, P.-D.
Science goals of MoonNEXT, an ESA study to put a lander
on the Moon (solicited)

18:20–18:35; EGU2008-A-09766; PS3.4-1TU5O-006
Houdou, B.; Pradier, A.; Koschny, D.; Vaujour, P.-D.
MoonNEXT: ESA Phase A Mission Study of a Lunar Lander
with In-Situ Science and Mobility

18:35–18:40; EGU2008-A-11103; PS3.4-1TU5O-007
Schmitz, N.; Gao, Y.; Oberst, J.; Wild, A.
A Moon-based Sensors Network supporting Science and
Navigation

18:40–18:45; EGU2008-A-11324; PS3.4-1TU5O-008
Fidani, C.; Battiston, R.
A lunar spectrometer for Radon emanations linked to
seismic activity

18:45–18:50; EGU2008-A-11912; PS3.4-1TU5O-009
Liu, X.; Zhang, Y.-h.; Hu, Z.-y.
Lunar Dust Effects on Lunar Rover Exploration

18:50–18:55; EGU2008-A-08149; PS3.4-1TU5O-010
Rothkaehl, H. ; Thide, B.; Bergman, J.E.
Natural spacecraft "Moon", challenge for monitoring Sun,
solar wind and the different region of magnetosphere

18:55–19:00; EGU2008-A-08223; PS3.4-1TU5O-011
Iafolla, V.; Fiorenza, E.; Lefevre, C.; Nozzoli, S.; Peron, R.;
Persichini, M.; Reale, A.; Santoli, F.
ISA on the Moon: useful applications of accelerometers for
planetary exploration

19:00 END OF SESSION

PS4.0 Outer planets and satellites – Posters

Convener: Coustenis, A.

Co-Convener(s): Atreya, S.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0528; EGU2008-A-01360; PS4.0-1TU2P-0528

Tokano, T.

Limnological structure of hydrocarbon lakes on Titan
(solicited)

XY0529; EGU2008-A-03673; PS4.0-1TU2P-0529

cours, T.; rannou, P.; coustenis, A.; negrão, A.; Hirtzig, M.;
boudon, V.

A new analysis of the ESO Very Large Telescope (VLT)
observations of Titan's at 2 um.

XY0530; EGU2008-A-06386; PS4.0-1TU2P-0530

Szopa, C.; Cernogora, G.; Ouni, F.; Alcouffe, G.; Car-
rasco, N.; Quirico, E.; Thissen, R.; Schmitt, B.; Derenne, S.
Analogues of Titan's aerosols produced with a radio-
frequency plasma experiment: physical and chemical
properties determined from various complementary diagnos-
tics (solicited)

XY0531; EGU2008-A-09591; PS4.0-1TU2P-0531

Schwingschuh, K.; Tokano, T.; Besser, B.; Jernej, I.;
Hofe, R.; Magnes, W.; Falkner, P.; Brown, V.; Eichel-
berger, H.U.; THE HASI TEAM

Variations of acoustic parameters in the troposphere of Titan
as observed by the HUYGENS HASI acoustic sensor

XY0532; EGU2008-A-10189; PS4.0-1TU2P-0532

Lorenz, R.; Stiles, B.; Kirk, R.; Zebker, H.; Callahan, P.;
Radarteam, T.C.

Geophysical Results at Titan from Cassini RADAR : Topog-
raphy and Spin State Overview (solicited)

XY0533; EGU2008-A-10197; PS4.0-1TU2P-0533

Mitri, G. ; Bland, M.; Lopes, R. M.; Showman, A. P.
Mountain Building on Titan

XY0534; EGU2008-A-10467; PS4.0-1TU2P-0534

Soderblom, J. M.; Barnes, J. W.; Brown, R. H.; Jau-
mann, R.; Le Mouélic, S.; Soderblom, L. A.; Sotin, C.;
Stephan, K.; The VIMS Team
Investigation into the Origin of a Crater Complex on Titan
Observed by Cassini VIMS (solicited)

XY0535; EGU2008-A-11497; PS4.0-1TU2P-0535

Barth, E.L.; Rafkin, S.C.R

Microphysical Modeling of Titan's Convective Clouds

XY0536; EGU2008-A-08907; PS4.0-1TU2P-0536

Hedelt, P.; Ito, Y.; Rauer, H.; Reulke, R.; Keller, H. U.;
Korth, A.; Esposito, L.

Hydrogen Lyman Alpha emission from Titan's exosphere:
Comparing measurement and model

- XY0537**; EGU2008-A-11883; PS4.0-1TU2P-0537
Ventura, B.; Casarano, D.; Notarnicola, C.; Posa, F.; Janssen, M.
 Extracting information on wind speed and liquid optical thickness on Titan lakes by using Cassini radar data and a Bayesian inversion procedure
- XY0538**; EGU2008-A-04792; PS4.0-1TU2P-0538
 Parkinson, C. D.; Liang, M.-C.; **Yung, Y. L.**
 Habitability of Enceladus: Planetary Conditions for Life
- XY0539**; EGU2008-A-05197; PS4.0-1TU2P-0539
Barkin, Yu.V.
 Cassini's motions and resonant librations of some satellites of Uran and Neptune
- XY0540**; EGU2008-A-05977; PS4.0-1TU2P-0540
Khurana, K. K.; Dougherty, M. K.; Jia, Y.; Russell, C. T.; Travnicek, P.
 The variability of mass-loading near Enceladus
- XY0541**; EGU2008-A-08732; PS4.0-1TU2P-0541
Schilling, N.; Saur, J.; Neubauer, F.M.
 Enceladus' plasma interaction with Saturn's magnetosphere
- XY0542**; EGU2008-A-10282; PS4.0-1TU2P-0542
Johnson, T.; Castillo-Rogez, J.; Matson, D.; Morbidelli, A.; Lunine, J.
 The Chronology of the Early Outer Solar System (solicited)
- XY0543**; EGU2008-A-11327; PS4.0-1TU2P-0543
Czechowski, L.
 Parameterized theory of convection in medium size satellites of Uranus
- XY0544**; EGU2008-A-00295; PS4.0-1TU2P-0544
Zuchowski, L. C.; Yamazaki, Y. H.; Read, P. L.
 A Jovian moist convection parametrization
- XY0545**; EGU2008-A-09727; PS4.0-1TU2P-0545
Fletcher, L.N.; Orton, G.S.; Teanby, N.A.; Irwin, P.G.J.; Bjoraker, G.L.
 Methane and its Isotopologues on Saturn from Cassini/CIRS Observations
- XY0546**; EGU2008-A-09440; PS4.0-1TU2P-0546
 Zarka, P.; **Griessmeier, J.-M.**; Konovalenko, A.; Fischer, G.; Ryabov, B.; Vavriv, D.; Ryabov, V.; Rucker, H.; Ravier, P.; Sidorchuk, M.; Radio-Exopla collaboration
 Ground based detection and study of Saturn Electrostatic Discharges
- XY0547**; EGU2008-A-09246; PS4.0-1TU2P-0547
Bebesi, Z.; Szego, K.; Balogh, A.; Erdos, G.; Young, D.T.
 Slow-mode shock detection in the Jovian magnetosheath
- XY0548**; EGU2008-A-06679; PS4.0-1TU2P-0548
D'Aversa, E.; Bellucci, G.; Altieri, F.; Carrozzo, F.G.; Brown, R.H.
 Vertical aerosol distribution in the troposphere and stratosphere of Saturn from Cassini/VIMS data
- XY0549**; EGU2008-A-05789; PS4.0-1TU2P-0549
Kalogerakis, K. S.; Marschall, J.; Oza, A. U.; Engel, P. A.; Meharchand, R. T.; Wong, M. H.
 The coating hypothesis for ammonia ice particles in Jupiter: Laboratory experiments and optical modeling
- XY0550**; EGU2008-A-05495; PS4.0-1TU2P-0550
Burton, M.E.; Dougherty, M.K.; Russell, C.T.; Smith, E.J.
 An updated model of the planetary magnetic field of Saturn based on Cassini data
- XY0551**; EGU2008-A-01986; PS4.0-1TU2P-0551
Majeed, T.; Bougher, S. W.; Waite, J. H.; Gladstone, G. R.
 Thermal Structure and Ion-Neutral Coupling at Jupiter's Auroral Region
- XY0552**; EGU2008-A-02035; PS4.0-1TU2P-0552
Cavalié, T.; Billebaud, F.; Fouchet, T.; Lellouch, E.; Brillet, J.; Dobrijevic, M.
 Observations of CO on Saturn and Uranus at millimeter and submillimeter wavelength
- XY0553**; EGU2008-A-04851; PS4.0-1TU2P-0553
Orton, G.; Encrenaz, T.; Leyrat, C.; Pantin, E.; Fletcher, L.; Moses, J.; Burgdorf, M.; Meadows, V.; Mainzer, A.; Hammel, H.
 Mid-infrared Imaging of Uranus from the VLT and spectroscopy from the Spitzer IRS (solicited)
- XY0554**; EGU2008-A-10704; PS4.0-1TU2P-0554
Tyler, G.L.; Bird, M.K.; Paetzold, M.
 New Horizons Radio Science Investigations of the Pluto-Charon System
- XY0555**; EGU2008-A-01745; PS4.0-1TU2P-0555
 Rinsland, C.; Malathy Devi, V.; Blake, T.; Sams, R.; Sharpe, S.; Chiou, L.
 Temperature-dependent infrared absorption cross sections of benzene vapor (C₆H₆)
- XY0556**; EGU2008-A-09137; PS4.0-1TU2P-0556
Colosimo, S.F.; Adriani, A.; Lunine, J.; Dinelli, B.M.; Moriconi, M.L.; Daversa, E.; Coradini, A.
 A Radiative Transfer model for the atmosphere of the Outer Planets.
- XY0557**; EGU2008-A-01274; PS4.0-1TU2P-0557
Kochemasov, G.
 Systematic not random "peppering" saturnian surface by the IR round clouds: wave features with predictable size
-
- PS4.1 Satellites and rings**
 Convener: Ferrari, C.
 Co-Convener(s): Spilker, L.
 Lecture Room 8
 Chairperson: SHOWALTER, M.
- 8:30–8:45**; EGU2008-A-05224; PS4.1-1TU1O-001
Charnoz, S.; The Cassini Imaging Team, C.
 The complex life of Saturn's small satellites at the ring's outer edge (solicited)
- 8:45–9:00**; EGU2008-A-08696; PS4.1-1TU1O-002
Evans, M.W.
 Saturn's F ring, building a theory of it's structure (solicited)
- 9:00–9:15**; EGU2008-A-05458; PS4.1-1TU1O-003
Esposito, LW
 History of Saturn's rings
- 9:15–9:30**; EGU2008-A-08641; PS4.1-1TU1O-004
Leyrat, C.; Spilker, L.; Pilorz, S.; Ferrari, C.; Edgington, S.
 Thermal modelling of self gravity wakes (solicited)
- 9:30–9:45**; EGU2008-A-05871; PS4.1-1TU1O-005
Spilker, L.; Pilorz, S.; Altobelli, N.; Leyrat, C.; Ferrari, C.; Flandes, A.; Edgington, S.; Pearl, J.; Wallis, B.; Flasar, M.
 Cassini CIRS and Voyager IRIS observations of thermal behavior in Saturn's C ring
- 9:45–10:00**; EGU2008-A-10908; PS4.1-1TU1O-006
 Leisner, J. S.; **Russell, C. T.**; Kurth, W. S.; Omid, N.; Dougherty, M. K.
 Magnetic signature of Iapetus' interaction with the solar wind
-
- 10:00 COFFEE BREAK**
-

Chairperson: SPILKER, L.

10:30–10:45; EGU2008-A-04882; PS4.1-1TU2O-001
Hansen, C.; Esposito, L.; Colwell, J.; Hendrix, A.;
Meinke, B.; Stewart, I.
Observations of Enceladus' Plume from Cassini's Ultraviolet Imaging Spectrograph (solicited)

10:45–11:00; EGU2008-A-03649; PS4.1-1TU2O-002
Postberg, F.; Kempf, S.; Srama, R.; Hillier, J.K.; Green, S.F.;
McBride, N.
Composition of Enceladus Plume and Surface Particles (solicited)

11:00–11:15; EGU2008-A-06946; PS4.1-1TU2O-003
Beckmann, U.; Kempf, S.; Srama, R.; Moragas-Klostermeyer, G.; Helfert, S.; Gr $\ddot{A}$ ¹/₄n, E.
Dynamics of dust in Saturn's outer magnetosphere

11:15–11:30; EGU2008-A-11036; PS4.1-1TU2O-004
Denk, T.; Cassini Imaging Team
Iapetus: Results from the Cassini Imaging Experiment and Notes on the Brightness Dichotomy Enigma (solicited)

11:30–11:45; EGU2008-A-08745; PS4.1-1TU2O-005
Schmedemann, N.; Neukum, G.; Denk, T.; Wagner, R.
Stratigraphy and Surface Ages on Iapetus and Other Saturnian Satellites

11:45–12:00; EGU2008-A-04702; PS4.1-1TU2O-006
de Pater, Imke; Hammel, H.B.; Showalter, M.R.; Gibbard, S.; Matthews, K.; Nicholson, P.; Stam, D.; Hartung, M.; van Dam, M.
Ground-based Observations of the Ring Plane Crossings of Uranus

12:00 END OF SESSION

PS4.1 Satellites and rings – Posters

Convener: Ferrari, C.
Co-Convener(s): Spilker, L.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: LEYRAT, C.

XY0558; EGU2008-A-05702; PS4.1-1TU3P-0558
Showalter, M.; Lissauer, J.; French, R.; Hamilton, D.;
Nicholson, P.; de Pater, I.
Hubble Observations of the Uranian Ring Plane Crossing (solicited)

XY0559; EGU2008-A-05164; PS4.1-1TU3P-0559
Altobelli, N.; Spilker, L.; Pilorz, S.; Leyrat, C.; Edgington, S.; Brooks, S.; Flasar, F.M.
Phase curves of Saturn's main rings in the thermal infrared: the Cassini-CIRS point of view (solicited)

XY0560; EGU2008-A-02186; PS4.1-1TU3P-0560
Griv, E.; Gedalin, M.
Self-gravity density waves in Saturn's rings: the effect of finite disk thickness

XY0561; EGU2008-A-11251; PS4.1-1TU3P-0561
Albers, N.
Saturn's F Ring: Simulations and Observations by Cassini UVIS

XY0562; EGU2008-A-06282; PS4.1-1TU3P-0562
Srama, R.; Kempf, S.; Moragas-Klostermeyer, G.; Beckmann, U.; Hsu, S.; Postberg, F.; Economou, T.; Helfert, S.; Altobelli, N.; Gruen, E.
Status of Cosmic Dust measurements onboard Cassini (solicited)

XY0563; EGU2008-A-11086; PS4.1-1TU3P-0563
Moragas-Klostermeyer, G.; Srama, R.; Kempf, S.; Beckmann, U.; Postberg, F.; Hsu, S.; Roy, M.; Burton, M.; Krueger, H.; Gruen, E.
Dust impact charge generation measured by Cassini's Dust Instrument, CDA.

XY0564; EGU2008-A-06403; PS4.1-1TU3P-0564
Schmidt, J.; Sremcevic, M.
The shadow of Saturn's icy satellites on the E ring

XY0565; EGU2008-A-06063; PS4.1-1TU3P-0565
Roatsch, Th.; Wählich, M.; Hoffmeister, A.; Kersten, E.; Wagner, R.; Neukum, G.; Porco, C.
High Resolution Dione and Tethys Atlases derived from Cassini-ISS images

XY0566; EGU2008-A-10785; PS4.1-1TU3P-0566
Mackenzie, R.; Iess, L.; Rappaport, N.; Tortora, P.
The gravity field of Rhea

XY0567; EGU2008-A-11302; PS4.1-1TU3P-0567
Czechowski, L.
An explanation of endogenic activity of medium size satellites of Saturn

XY0568; EGU2008-A-11604; PS4.1-1TU3P-0568
Cooper, J. F.
Comparative Radiation Environments of Europa, Enceladus, and Saturn's Main Rings (solicited)

XY0569; EGU2008-A-07372; PS4.1-1TU3P-0569
Musiol, S.; Pauer, M.; Breuer, D.
Modeling the gravity field of Jupiter's moon Europa: Influence of icy crust topography and subsurface structures

XY0570; EGU2008-A-05176; PS4.1-1TU3P-0570
Barkin, Yu. V.
Cassini's motions and resonant librations of Galilean and other satellites of Jupiter

XY0571; EGU2008-A-05191; PS4.1-1TU3P-0571
Barkin, Yu. V.
Cassini's motions and resonant librations of some satellites of Saturn

XY0572; EGU2008-A-01271; PS4.1-1TU3P-0572
Kochemasov, G.
Plato' polyhedra as shapes of small icy satellites

XY0573; EGU2008-A-01275; PS4.1-1TU3P-0573
Kochemasov, G.
A wave geometrization of small heavenly bodies

PS8 Planetary, Solar and Heliospheric Radio Emissions

Convener: Galopeau, P.
Co-Convener(s): Boudjada, M.
Lecture Room 8
Chairperson: N.N.

15:30–15:45; EGU2008-A-06546; PS8-1TU4O-001
Maksimovic, M. ; Cecconi, B.; Bonnin, X.; Goetz, K.; Bale, S.D.; Kaiser, M.L.; Kellogg, P.J.; Reiner, M.J.; Bougeret, J.-L.
A review scientific results obtained with the S/WAVES experiment on the Stereo mission (solicited)

15:45–16:00; EGU2008-A-05865; PS8-1TU4O-002
Lobzin, V. V.; **Cairns, I. H.;** Robinson, P. A.
Evidence for wind-like regions, acceleration of shocks in the deep corona, and relevance of 1/f dynamic spectra for coronal type II bursts

16:00–16:15; EGU2008-A-05850; PS8-1TU4O-003
Li, B; Cairns, I; Robinson, P
Simulations of Coronal Type III Solar Radio Bursts

16:15–16:30; EGU2008-A-09050; PS8-1TU4O-004
Reiner, M.; Goetz, K.; Kaiser, M.; Fainberg, J.; Cecconi, B.; Maksimovic, M.; Hoang, S.; Bougeret, J.; Bale, S.
Multipoint Observations of Solar Type III Radio Bursts

16:30–16:45; EGU2008-A-10022; PS8-1TU4O-005
Panchenko, M.; Khodachenko, M. L.; Kislyakov, A. G.; Rucker, H. O.; Hanasz, J.; Zarka, P.; Kaiser, M.
AKR modulations controlled by Earth's rotation, as observed by STEREO.

16:45–17:00; EGU2008-A-07850; PS8-1TU4O-006
Burinskaya, T.; Rauch, J.L.
Thin plasma cavities as a source of Auroral Kilometric radiation

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-12081; PS8-1TU5O-001
Rucker, H. O.; Karlsson, R.; Konovalenko, A.; Zarka, P.; Oswald, T. H.
LOFAR-CM: A low frequency array station in the Carpathian Mountains (solicited)

17:45–18:00; EGU2008-A-08092; PS8-1TU5O-002
Shaposhnikov, V.; Kostrov, A.; Gushchin, M.; Korobkov, S.; Strikovskiy, A.; Rucker, H.; Litvinenko, G.
A mechanism for the formation of the Jovian S-burst trains and narrow band emission

18:00–18:15; EGU2008-A-11216; PS8-1TU5O-003
Wang, Z.; Gurnett, D.A.; Kurth, W.S.; Ye, S.; Mitchell, D.G.; Carbary, J.F.; Russell, C.T.
Narrowband radio emissions and their relationship to rotating plasma clouds and magnetic disturbances at Saturn

18:15–18:30; EGU2008-A-09902; PS8-1TU5O-004
Lamy, L.; Zarka, P.; Hess, S.; Cecconi, B.; Prangé, R.; Clarke, J.T.
Modelling Saturnian Kilometric Radiation (SKR) disappearance at high northern latitudes

18:30–18:45; EGU2008-A-08672; PS8-1TU5O-005
Zaitsev, V.; Shaposhnikov, V.; Rucker, H.
Electron acceleration in Titan's ionosphere

18:45–19:00; EGU2008-A-09202; PS8-1TU5O-006
Majid, W.; Winterhalter, D.; Kuiper, T.; Lazio, J.
Search for radio emission from extrasolar planets: dynamic spectra from GMRT observations

19:00 END OF SESSION

Wednesday

IS50 - PS1/ST4/MPRG15 Cosmic vision: Great questions in the solar system and how to answer them? (co-organized by ST, PS & MPRG)

Convener: Opgenoorth, H.
Co-Convener(s): Pulkkinen, T., Grande, M.
Lecture Room 15
Chairperson: N.N.

13:30–14:00; EGU2008-A-12390; IS50 -
PS1/ST4/MPRG15-1WE3O-001
Southwood, D.
ESA's Cosmic Vision: The Prospect ahead (solicited)

14:00–14:30; EGU2008-A-12391; IS50 -
PS1/ST4/MPRG15-1WE3O-002
Thomas, N.
Cosmic Vision Solar System Selection Process (solicited)

14:30–14:45; EGU2008-A-11005; IS50 -
PS1/ST4/MPRG15-1WE3O-003
Blanc, M.; The LAPLACE consortium
LAPLACE, a mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme (solicited)

14:45–15:00; EGU2008-A-11894; IS50 -
PS1/ST4/MPRG15-1WE3O-004
Coustenis, A.; Lebreton, J.-P.; The TandEM Consortium
ESA's Cosmic Vision Titan and Enceladus mission (TandEM) (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-12392; IS50 -
PS1/ST4/MPRG15-1WE4O-001
Barucci, M.A.; Yoshikawa, M.; Koschny, D.; Michel, P.; Kawaguchi, J.; Yano, H.; Brucato, J.; Dotto, E.; Franchi, I.; Bönnhardt, Green, S.; Josset, J.-L.; Muinonen, K.; Oberst, J.; Agnoloni, D.; Romstedt, J.
Marco Polo: Near-Earth Object Sample Return Mission (solicited)

15:45–16:00; EGU2008-A-12394; IS50 -
PS1/ST4/MPRG15-1WE4O-002
Falkner, P.; Safa, F.
Cosmic Vision: Solar System mission study organisation, planning and current status (solicited)

16:00–16:15; EGU2008-A-12395; IS50 -
PS1/ST4/MPRG15-1WE4O-003
Coradini, M.
International Collaboration: a tool for the implementation of Cosmic Vision 15-25 (solicited)

16:15–16:30; EGU2008-A-05205; IS50 -
PS1/ST4/MPRG15-1WE4O-004
Chassefiere, E.; THE EVE TEAM
Understanding the evolution of Venus and its climate with relevance to terrestrial planets everywhere

16:30–16:45; EGU2008-A-07580; IS50 -
PS1/ST4/MPRG15-1WE4O-005
Sasaki, S.; Ikoma, M.; Kimura, J.; Okada, T.; Naganuma, T.; Yamaji, A.; Hussman, H.; Fujimoto, M.; Kasaba, Y.; Jupiter Working Group, A.
LAPLACE for the origin and evolution of the Jovian system

16:45–17:00; EGU2008-A-12393; IS50 -
PS1/ST4/MPRG15-1WE4O-006
Schwartz, S.; Hellinger, P.; Louarn, P.; Nakamura, R.; Owen, C.; Pincon, J.-L.; Sorriso-Valvo, L.; Vaivads, A.; Wimmer-Schweingruber, R.F.; Fujimoto, M.; Saito, Y.; Bale, S.; Kessel, M.; Escoubet, P.; Falkner, P.; Opgenoorth, H.; Taylor, M.; Wielders, A.
Cross-Scale: A Cosmic Vision mission to study multi-scale coupling in plasmas

17:00 END OF SESSION

PS3.0 Open Session on Terrestrial Planets – Posters

Convener: Ziethe, R.

Co-Convener(s): Benkhoff, J.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0639; EGU2008-A-04691; PS3.0-1WE2P-0639

Marullo, A.; Saccà, C.; Munafò, C.; Teramo, A.

T-s fuzzy systems for data interpolation on geophysical basis

XY0640; EGU2008-A-01276; PS3.0-1WE2P-0640

Kochemasov, G.

Principal structural difference between the inner and outer planets of the Solar system

XY0641; EGU2008-A-01318; PS3.0-1WE2P-0641

Harada, Y.

True polar wander due to surface mass loading: Interaction between rotation and deformation through pole tide

XY0642; EGU2008-A-02392; PS3.0-1WE2P-0642

Quesnel, Y.; Costin, S.; Manda, M.; Sotin, C.

Methane released by serpentinization of the early Martian crust

XY0643; EGU2008-A-03582; PS3.0-1WE2P-0643

Davies, JH

Did a mega head-on collision dry the interior of Venus?

XY0644; EGU2008-A-05557; PS3.0-1WE2P-0644

Sergis, N.; Krimigis, S. M.; Hamilton, D.; Mitchell, D. G.

Suprathermal ($E > 3\text{keV}$) number density and composition in the Saturnian magnetosphere, based on MIMI measurements after 3.5 years of Cassini in orbit.

XY0645; EGU2008-A-07043; PS3.0-1WE2P-0645

Golabek, G.; Tackley, P.; Schmeling, H.

Earth's core formation aided by flow channelling instabilities induced by iron diapirs

XY0646; EGU2008-A-07455; PS3.0-1WE2P-0646

McKeegan, K. D.; Jarzebinski, G.; Kallio, A. P.; Mao, P. H.; Coath, C. D.; Kunihiro, T.; Wiens, R.; Burnett, D. S. Analysis of oxygen in a Genesis concentrator sample.

XY0647; EGU2008-A-09915; PS3.0-1WE2P-0647

McCord, T. B.; Castillo-Rogez, J. C.

Ceres' evolution and present state constrained by shape data

XY0648; EGU2008-A-09947; PS3.0-1WE2P-0648

Luetke, S.; **Deutsch, A.;** Langenhorst, F.

Trace element systematics in impact glasses from the Lake Bosumtwi impact crater, Ghana – a LA-ICP-MS study

XY0649; EGU2008-A-10728; PS3.0-1WE2P-0649

Giacomini, L.; **Frigeri, A.;** Massironi, M.; Pasquarè, G.; Carli, C.; Bistacchi, A.; Federico, C.

Comparative analysis between Payen and Daedalia Planum lava fields

PS3.3 Venus Express: two years in orbit

Convener: Titov, D.

Co-Convener(s): Svedhem, H.

Lecture Room 11

Chairperson: TITOV, D.; SVEDHEM, H.; TAYLOR, F.

13:30–14:00; EGU2008-A-12303; PS3.3-1WE3O-001

Svedhem, H.; Titov, D.; Witasse, O.

Status and scientific highlights of the Venus Express mission (solicited)

14:00–14:15; EGU2008-A-05343; PS3.3-1WE3O-002

Taylor, FW

The Climate on Venus: Insights from Venus Express (solicited)

14:15–14:45; EGU2008-A-08349; PS3.3-1WE3O-003

Piccioni, G.; Drossart, P.; the VIRTIS-Venus Express team

Observations by VIRTIS on Venus Express (solicited)

14:45–15:00; EGU2008-A-02620; PS3.3-1WE3O-004

Luz, D.; Berry, D.; Piccioni, G.; Drossart, P.; VIRTIS/Venus Express Team

Velocities of Venus clouds derived from VIRTIS observations

15:00 COFFEE BREAK

Chairperson: TITOV, D.; SVEDHEM, H.; TAYLOR, F.

15:30–15:45; EGU2008-A-05901; PS3.3-1WE4O-001

Yung, Y.; Liang, M.

Chemical Sources and Sinks of OCS in the Lower Atmosphere and on the Surface of Venus (solicited)

15:45–16:00; EGU2008-A-03630; PS3.3-1WE4O-002

Markiewicz, W.J.; Titov, D.V.; Limaye, S.S.; Keller, H.U.; Ignatiev, N.; Jaumann, R.; Thomas, N.; Michalik, H.

Morphology and dynamics of the Venus upper cloud layer (solicited)

16:00–16:15; EGU2008-A-07420; PS3.3-1WE4O-003

Satoh, T.; Carlson, R.; Esposito, L.

What have we learned about Venus clouds and haze with Venus Express? (solicited)

16:15–16:30; EGU2008-A-12301; PS3.3-1WE4O-004

Bertaux, J.-L.

Overview of the SPICAV/SOIR results in the context of dynamics and chemistry of the Venus atmosphere (solicited)

16:30–16:45; EGU2008-A-01796; PS3.3-1WE4O-005

Mahieux, A.; Wilquet, V.; Vandaale, A. C.; Federova, A.; Korablev, O.; Montmessin, F.; Bertaux, J. L.

Minor constituents of the Venus atmosphere measured by SPICAV/SOIR on board Venus Express

16:45–17:00; EGU2008-A-01720; PS3.3-1WE4O-006

Tellmann, S.; Häusler, B.; Pätzold, M.; Bird, M.; Tyler, G.L.

The structure of the Venus neutral atmosphere from the Radio Science Experiment VeRa on Venus Express (solicited)

17:00 COFFEE BREAK

Chairperson: TITOV, D.; SVEDHEM, H.; TAYLOR, F.

17:30–17:45; EGU2008-A-04291; PS3.3-1WE5O-004

Balikhin, M.A.; Zhang, T.; Gedalin, M.; **Pope, S.A.**

VEX observes a New Type of Collisionless Shock

17:45–18:00; EGU2008-A-11014; PS3.3-1WE5O-001

Barabash, S.; Sauvaud, J.-A.; Fedorov, A.; ASPERA-4

Review of the results from Analyzer of Space Plasmas and Energetic Atoms ASPERA-4 onboard Venus Express (solicited)

18:00–18:15; EGU2008-A-05650; PS3.3-1WE5O-002

Zhang, T. L.

Venus Express magnetic field observation of the solar wind interaction with Venus at solar minimum (solicited)

18:15–18:30; EGU2008-A-04806; PS3.3-1WE5O-003

Russell, C. T.; Zhang, T.-L.; Delva, M.

Whistler mode signals due to Venus lightning: Magnetic field control of access to the ionosphere (solicited)

18:30–18:45; EGU2008-A-04403; PS3.3-1WE5O-005
Slavin, J. A.; Acuña, M. H.; Anderson, B. J.; Barabash, S.; Benna, M.; Boardsen, S. A.; Fraenz, M.; Gloeckler, G.; Ho, G. C.; Korth, H.
 MESSENGER and Venus Express observations of the near-tail of Venus: Magnetic flux transport, current sheet structure, and flux rope formation (solicited)

18:45–19:00; EGU2008-A-05653; PS3.3-1WE5O-006
Nakamura, M.; Satoh, T.; Imamura, T.; Abe, T.; Ueno, M.; Yamazaki, A.; Ishii, N.; Suzuki, M.; Takemae, T.; Mochihara, Y.
 Present Status of Venus Climate Orbiter development in 2008 (solicited)

19:00 END OF SESSION

PS3.4 Lunar science and exploration

Convener: Foing, B.
 Lecture Room 8
 Chairperson: FOING, B.H.

Future international lunar exploration programme

8:30–8:45; EGU2008-A-09571; PS3.4-1WE1O-002
Cahalan, R.; Ohmura, A.; Wen, G.; Miyahara, H.
 The Lunar Borehole Experiment

8:45–8:50; EGU2008-A-10422; PS3.4-1WE1O-003
Soldovieri, F.; Prisco, G.
 Novel GPR data processing based on microwave tomography for in situ subsurface prospecting

8:50–8:55; EGU2008-A-11288; PS3.4-1WE1O-004
Hamera, K.; Mosher, T.
 Evolvable lunar navigation and communication constellations

8:55–9:10; EGU2008-A-06761; PS3.4-1WE1O-005
Kozyrovska, N.; Zaetz, I.; Voznyuk, T.; Rogutskyy, I.; Mytrochyn, O.; Lukashov, D.; Mashkovska, S.; Foing, B.
 A precursory technology of growing first plants in a lunar base

9:10–9:25; EGU2008-A-05956; PS3.4-1WE1O-006
Kawaguchi, J.; Matsumoto, K.; Hashimoto, T.; Hoshino, T.; Takizawa, Y.; Kato, M.
 Japanese Lunar Exploration Program (solicited)

9:25–9:40; EGU2008-A-12494; PS3.4-1WE1O-008
Carey, W.; Haese, M.; Hufenbach, B.; Mongrard, O.; Schlutz, J.
 ESA Strategy and Architecture Studies for Lunar Exploration

9:40–9:55; EGU2008-A-12206; PS3.4-1WE1O-007
 Foing, B.H.; ILEWG pannel
 Perspectives for international lunar exploration

9:55 END OF SESSION

PS3.4 Lunar science and exploration – Posters

Convener: Foing, B.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0650; EGU2008-A-11380; PS3.4-1WE2P-0650
Combe, J-Ph.; Le Mouélic, S.; Kramer, G. Y.; McCord, T. B.
 Mineralogy of the Moon investigated from spectral analysis of Clementine UVVIS and NIR data

XY0651; EGU2008-A-07989; PS3.4-1WE2P-0651
Hempel, S.; Knapmeyer, M.; Oberst, J.
 Investigations of deep quakes on the lunar far side

XY0652; EGU2008-A-11236; PS3.4-1WE2P-0652
Fidani, C.
 Tlp versus moonquakes to understand earthquake associated phenomena

XY0653; EGU2008-A-06617; PS3.4-1WE2P-0653
Zieth, R.; Hiesinger, H.
 Duration and Extent of Lunar Volcanism: Comparison of 3D Convection Models to Mare Basalt Ages

XY0654; EGU2008-A-10827; PS3.4-1WE2P-0654
Barkin, Yu.V.
 Some fundamental problems of dynamics and evolution of the Moon and their possible mechanical interpretation

XY0655; EGU2008-A-01999; PS3.4-1WE2P-0655
Kochemasov, G.
 Enhanced angular momentum of the lunar wide equatorial belt and how Moon works to diminish it

XY0656; EGU2008-A-03222; PS3.4-1WE2P-0656
Cremonese, G.; Marchi, S.; Martellato, E.; Massironi, M.; Borin, P.; Capria, M.T.; Carolo, E.; Giacomini, L.; Motola, S.
 New model for age determination of lunar regions

XY0657; EGU2008-A-05136; PS3.4-1WE2P-0657
Lu, Ya.; Shevchenko, V.
 Correlations between iron distribution and surface morphology of crater Kepler area

XY0658; EGU2008-A-09639; PS3.4-1WE2P-0658
Sarantos, M.; Killen, R.
 A quantitative model of the lunar sodium emission

XY0659; EGU2008-A-06001; PS3.4-1WE2P-0659
Sadovski, A.; Skalsky, A.
 The moon plasma environment: present understanding and models

XY0660; EGU2008-A-07355; PS3.4-1WE2P-0660
Grieger, B.; Almeida, M.; Beauvivre, S.; Dognac, V.; Foing, B. H.; Josset, J.-L.; Koschny, D.; Martinez, S.
 Coverage, resolution and calibration of SMART-1/AMIE images

XY0661; EGU2008-A-06625; PS3.4-1WE2P-0661
Kaydash, V.; Kreslavsky, M.; Shkuratov, Yu.; Gerasimenko, S.; Pinet, P.; Chevrel, S.; Josset, J.-L.; Beauvivre, S.; Foing, B.; SMART-1 team, AMIE
 Photometric anomalies of the lunar surface and the lunar opposition effect from AMIE SMART-1 data

XY0662; EGU2008-A-04099; PS3.4-1WE2P-0662
Despan, D.; Erard, S.; Barucci, A.; Josset, J.-L.; Beauvivre, S.; Chevrel, S.; Pinet, P.; Koschny, D.; Almeida, M.; Grieger, B.; the AMIE team
 AMIE/SMART-1 Mapping of Lunar Poles and Other Regions of Interest

Thursday

XY0663; EGU2008-A-03758; PS3.4-1WE2P-0663

Ono, T; Kumamoto, A; Yamaguchi, Y; Yamaji, Y; Kobayashi, T; Kasahara, Y; Nakagawa, H; Oshigami, S; Oya, H

Initial results of the Lunar Radar Sounder (LRS) experiment on-board the KAGUYA (Selene) spacecraft

XY0664; EGU2008-A-09372; PS3.4-1WE2P-0664

Yokota, S.; Saito, Y.; Asamura, K.; Tanaka, T.; Nishino, M.N.; Yamamoto, T.I.; Tsunakawa, H.; Terasawa, T.; KAGUYA MAP TEAM

Anomalous ion acceleration around the moon: Initial observation of MAP-PACE on KAGUYA (SELENE)

XY0665; EGU2008-A-10481; PS3.4-1WE2P-0665

Sanin, A.; Mitrofanov, I.; Boynton, W.; Evans, L.; Harshman, K.; Trombka, J.; Litvak, M.; Sagdeev, R.; Shevchenko, V.; Starr, R.

Lunar Exploration Neutron Detector (LEND) for NASA Lunar Reconnaissance Orbiter

XY0666; EGU2008-A-02671; PS3.4-1WE2P-0666

Flechtner, F.; Neumayer, K.H.; Kusche, J.; Schaefer, W.; Sohl, F.

Simulation study for the determination of the lunar gravity field from PRARE-L tracking onboard the German LEO mission

XY0667; EGU2008-A-04983; PS3.4-1WE2P-0667

Shevchenko, V.

Russian project Luna-Glob: goals and status

XY0668; EGU2008-A-11545; PS3.4-1WE2P-0668

REN, Q.Y.; WANG, S.J.; ZHU, G.W.; LIANG, J.B.; ZHANG, X.G.; ZEN, L

Ion Analyzer Experiment in Near-Moon Space Environment Exploration

XY0669; EGU2008-A-12209; PS3.4-1WE2P-0669

Foing, B.H.; ILEWG members

Intercalibration, and data integration between lunar missions

XY0670; EGU2008-A-11103; PS3.4-1WE2P-0670

Schmitz, N.; Gao, Y.; Oberst, J.; Wild, A.

A Moon-based Sensors Network supporting Science and Navigation

XY0671; EGU2008-A-11324; PS3.4-1WE2P-0671

Fidani, C.; Battiston, R.

A lunar spectrometer for Radon emanations linked to seismic activity

XY0672; EGU2008-A-11912; PS3.4-1WE2P-0672

Liu, X.; Zhang, Y-h.; Hu, Z.-y.

Lunar Dust Effects on Lunar Rover Exploration

XY0673; EGU2008-A-08149; PS3.4-1WE2P-0673

Rothkaehl, H. ; Thide, B.; Bergman, J.E.

Natural spacecraft "Moon", challenge for monitoring Sun, solar wind and the different region of magnetosphere

XY0674; EGU2008-A-08223; PS3.4-1WE2P-0674

Iafolla, V.; Fiorenza, E.; Lefevre, C.; Nozzoli, S.; Peron, R.; Persichini, M.; Reale, A.; Santoli, F.

ISA on the Moon: useful applications of accelerometers for planetary exploration

XY0675; EGU2008-A-10422; PS3.4-1WE2P-0675

Soldovieri, F.; Prisco, G.

Novel GPR data processing based on microwave tomography for in situ subsurface prospecting

XY0676; EGU2008-A-11288; PS3.4-1WE2P-0676

Hamera, K.; Mosher, T

Evolvable lunar navigation and communication constellations

IS51 - PS2.2/BG7.4 Astrobiology, Mars and robotic exploration (co-organized by BG & PS)

Convener: Westall, F.

Co-Convener(s): Vago, J., Muller, C., Toporski, J.

Lecture Room 11

Chairperson: N.N.

15:30–15:45; EGU2008-A-11557; IS51 - PS2.2/BG7.4-1TH4O-001

Bishop, J. L.; Garcia, N.; Dyar, M. D.; Parente, M.; Murad, E.; Mancinelli, R. L.; Drief, A.; Lane, M. D. Maghemite as an astrobiology indicator on the Martian surface: Reduction of iron oxides by early organic compounds to generate magnetic phases

15:45–16:00; EGU2008-A-06880; IS51 - PS2.2/BG7.4-1TH4O-002

Martinez, G.; Vazquez, L.; Valero, F.

Mars surface layer characterization

16:00–16:15; EGU2008-A-06410; IS51 - PS2.2/BG7.4-1TH4O-003

Stalport, F.; Coll, P.; **Szopa, C.;** Cottin, H.

Study of Martian Organic Molecules Irradiation and Evolution: The Momie Experiment

16:15–16:30; EGU2008-A-04364; IS51 - PS2.2/BG7.4-1TH4O-004

Thomas-Keprta, K. L.; Clemett, S. J.; McKay, D. S.; Gibson, E. K.; Wentworth, S. J.; FEI Corporation, FEI Reevaluation of the "Life-on-Mars" Hypothesis: Origin of ALH84001 Carbonate-Magnetite Assemblages

16:30–16:45; EGU2008-A-11406; IS51 - PS2.2/BG7.4-1TH4O-005

Klingelhöfer, G.; Fleischer, I.; Morris, R.V.; Rodionov, D.; Blumers, M.; Bernhardt, B.; Schröder, C.; Ming, D.W.; Yen, A.S.

The miniaturized Mössbauer Spectrometers MIMOS II on MER: four years of operation

16:45–17:00; EGU2008-A-11087; IS51 - PS2.2/BG7.4-1TH4O-006

Lognonné, P.; Pike, W.T.; Mimoun, D.; Mance, D.; Giardini, D.; Christensen, U.; van den Berg, A.; Roll, R.; Calcutt, S.; Smit, J.M.; and the SEIS team The ExoMars-Humboldt SEIS experiment

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-08214; IS51 - PS2.2/BG7.4-1TH5O-001

Bellucci, G.; THE MIMA TEAM

MIMA, a miniaturized infrared Fourier spectrometer for Pasteur/ExoMars

17:45–18:00; EGU2008-A-09450; IS51 - PS2.2/BG7.4-1TH5O-002

Bibring, J-P.; and the MicrOmega, team

MicrOmega/ExoMars: a microscopic search for potential biorelics

18:00–18:15; EGU2008-A-09541; IS51 - PS2.2/BG7.4-1TH5O-003

Parro, V.; Rivas, L.A.; Garcia-Villadangos, M.; Moreno-Paz, M.; Cruz-Gil, P.; Tabares, G.; Rodriguez-Manfredi, J.A.; Compostizo, C.; Herrero, P.L.; Gómez-Elvira, J.

Biosignature profiling for astrobiology by in situ immunosensor-based instrumentation

18:15–18:30; EGU2008-A-11211; IS51 - PS2.2/BG7.4-1TH5O-004

LMC on Biopan-6 team, The; LMC on Biopan-6 team
Survival of antibody assay reagents and materials under space mission conditions as a prelude to Life detection on Mars: Flight of the Life Marker Chip components on the ESA Biopan-6 platform

18:30–18:45; EGU2008-A-04592; IS51 - PS2.2/BG7.4-1TH5O-005

Westall, F.; Demets, R.; Brandstätter, F.; Edwards, H.G.M.; Cockell, C.S.; Parnell, J.; Pillinger, J.; Franchi, I.; Kurat, G.; Brack, A.
Stone 6: artificial sedimentary meteorites in space.

18:45–19:00; EGU2008-A-04545; IS51 - PS2.2/BG7.4-1TH5O-006

Grady, M. M.; the IMARS team
Planning for an International Mars sample Return Mission

19:00 END OF SESSION

IS51 - PS2.2/BG7.4 Astrobiology, Mars and robotic exploration (co-organized by BG & PS) – Posters

Convener: Westall, F.
Co-Convener(s): Vago, J., Muller, C., Toporski, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0565; EGU2008-A-11631; IS51 - PS2.2/BG7.4-1TH3P-0565

Kater, L.; Steele, A.; Fries, M.; Amundsen, H.; Mysen, B.; Fogel, M.; Schweizer, M.; Bocktor, N.
An Abiotic Organic Synthesis mechanism on Mars

XY0566; EGU2008-A-02180; IS51 - PS2.2/BG7.4-1TH3P-0566

Jehlicka, J.; Edwards, H.G.M.; Zacek, V.
Organic minerals and their direct nondestructive detection in rocks using Raman spectroscopy - possible use in exobiological studies

XY0567; EGU2008-A-02720; IS51 - PS2.2/BG7.4-1TH3P-0567

Le Postollec, A.; Dobrijevic, M.; Incerti, S.; Moretto, P.; Baque, M.; Vandenabeele-Trambouze, O.; Coussot, G.; Desvignes, I.

First assessment of radiation effects on a biochip in the case of a mission to Mars

XY0568; EGU2008-A-04578; IS51 - PS2.2/BG7.4-1TH3P-0568

Westall, F.; Klingelhöfer, G.; Zegers, T.; Pullan, D.
Mars Origins Mission

XY0569; EGU2008-A-05811; IS51 - PS2.2/BG7.4-1TH3P-0569

Yih (1), T. -S.; Chen (1), Y.-J.; Nuevo (1), M.; Ip (1), W.-H.; Cheng (2), C.-Y.; Fung (3), H.-S.; Wu (4), C.-Y.
Amino acids produced by UV/EUV photon irradiation of interstellar ice analogues*

XY0570; EGU2008-A-12072; IS51 - PS2.2/BG7.4-1TH3P-0570

Orange, F; **Westall, F.;** Disnar, J-R; Prieur, D; Le Romancer, M; Defarge, C
Experimental silicification of microorganisms. Applications in the search for evidence of life in early Earth and extraterrestrial rocks

XY0571; EGU2008-A-12075; IS51 - PS2.2/BG7.4-1TH3P-0571

Foucher, F.; Westall, F; Orange, F
Atomic Force Microscopy study of microfossils

XY0572; EGU2008-A-07681; IS51 - PS2.2/BG7.4-1TH3P-0572

Gerasimov, M. V.; Safonova, E. N.; Dikov, Yu. P.
Signature of impact-produced organic molecules in Luna 16 regolith samples.

XY0573; EGU2008-A-09486; IS51 - PS2.2/BG7.4-1TH3P-0573

Griffiths, A.; Coates, A.; Muller, J.; Storrie-Lombardi, M.; Jaumann, R.; Josset, J.; Paar, G.; Barnes, D.
Enhancing the Effectiveness of the ExoMars PanCam Instrument for Astrobiology

XY0574; EGU2008-A-10680; IS51 - PS2.2/BG7.4-1TH3P-0574

Pham, L. ; Karatekin, O.; Dehant, V.
Effect of Impacts on the atmospheric evolution of Mars

XY0575; EGU2008-A-10806; IS51 - PS2.2/BG7.4-1TH3P-0575

Josset, J.-L.; Westall, F.; Hofmann, B.; Spray, J. G.; Cockell, C.; Kempe, S.; Griffiths, A.D.; Coradini, A.; Colangeli, L.; Koschny, D.
CLUPI: CLose-UP Imager on the ExoMars Mission rover

PS3.1 Mercury

Convener: Benkhoff, J.
Co-Convener(s): Christensen, U.
Lecture Room 15
Chairperson: N.N.

8:30–9:00; EGU2008-A-09183; PS3.1-1TH1O-001
Solomon, S. C.; **McNutt Jr., R. L.;** Bedini, P. D.; Finnegan, E. J.; the MESSENGER Team
MESSENGER's First Mercury Flyby: An Overview of Observations (solicited)

9:00–9:15; EGU2008-A-05338; PS3.1-1TH1O-002
Zurbuchen, T.H.; Raines, J.M.; Gloeckler, G.; Kabin, K.; Krimigis, S.M.; Slavin, J.A.
First Ion Plasma Measurements in the Mercury Magnetosphere

9:15–9:30; EGU2008-A-04994; PS3.1-1TH1O-003
Travnicek, P.; Schriver, D.; Hellinger, P.; Hercik, D.; Slavin, J.A.; Anderson, B.J.; Acuna, M.H.; Krimigis, S.M.; Solomon, S.C.; Zurbuchen, T.H.
Case study of the structure of Mercury's magnetosphere: Comparison of three dimensional hybrid simulations with observations during MESSENGER's first Mercury flyby

9:30–9:45; EGU2008-A-10998; PS3.1-1TH1O-004
Iess, L.; Milani, A.; Tommei, G.
Precise orbitography of BepiColombo and the determination of Mercury's gravity field.

9:45–10:00; EGU2008-A-08151; PS3.1-1TH1O-005
Iafolla, V.; Fiorenza, E.; Lefevre, C.; Nozzoli, S.; Peron, R.; Persichini, M.; Reale, A.; Santoli, F.
The ISA accelerometer: fundamental support to the Bepi-Colombo mission for the exploration of planet Mercury

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2008-A-07745; PS3.1-1TH2O-001
Sprague, A.L.

Mercury: A Review of Observed Characteristics and Formation Possibilities (solicited)

11:00–11:15; EGU2008-A-09145; PS3.1-1TH2O-002
Donaldson Hanna, K. L.; Sprague, A. L.; Kozlowski, R. W.; Helbert, J.; Maturilli, A.; Hora, J. L.; Grosse, F. A.; Boop, T.
Mg-rich mineralogy and K-spar west of Caloris Basin on Mercury's surface

11:15–11:30; EGU2008-A-07009; PS3.1-1TH2O-003
Erard, S.; Bézard, B.; Despan, D.; Doressoundiram, A.; Vernazza, P.
Resolved NIR spectra of Mercury

11:30–11:45; EGU2008-A-09104; PS3.1-1TH2O-004
Rothery, D. A.
The global average crustal composition of Mercury – a useful measurement or not?

11:45–12:00; EGU2008-A-12196; PS3.1-1TH2O-005
Benkhoff, J
BepiColombo- A mission to explore Mercury

12:00 END OF SESSION

PS3.2 Mars Science & Exploration – Posters

Convener: Chicarro, A.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: ROSENBLATT, P.

XY0576; EGU2008-A-11122; PS3.2-1TH2P-0576

Andert, T.; Pätzold, M.; Häusler, B.
Direct measurement of the mass of Phobos with the Radio-Science Experiment MaRS onboard Mars-Express

XY0577; EGU2008-A-10743; PS3.2-1TH2P-0577

Barkin, Yu.V.
Model of annual variation of oblateness of Mars and possible annual oscillation of its pole

XY0578; EGU2008-A-06439; PS3.2-1TH2P-0578
Cabane, M.; Coll, P.; **Szopa, C.;** Coscia, D.; Stalport, F.; Mahaffy, P.; the SAM-GC team
The Sample Analysis at Mars experiment of the NASA/MSL 2009 mission: search for organic molecules and traces of a (pre)biotic activity at the surface of Mars

XY0579; EGU2008-A-08738; PS3.2-1TH2P-0579
Carrozzo, F. G.; Bellucci, G.; Altieri, F.; D'Aversa, E.; Bibring, J.-P.
Search for thermal anomalies on Mars with MEX/OMEGA

XY0580; EGU2008-A-07982; PS3.2-1TH2P-0580
Cartacci, M.; Frigeri, A.; Orosei, R.; Pettinelli, E.
Surface and subsurface radar backscattering coefficient over the Martian South Polar Layered Deposits from MARSIS data

XY0581; EGU2008-A-06360; PS3.2-1TH2P-0581
Chicarro, A. F.
Mars Express D Scientific results at the end of the extended mission

XY0582; EGU2008-A-10812; PS3.2-1TH2P-0582
Ciarletti, V.; Corbel, Ch.; Dolon, F.; Le Gall, A.; Hamran, S.E.; Plettemeier, D.; The EISS team
the EISS radar of the ExoMars mission : Characterization of the deep Martian sub-surface

XY0583; EGU2008-A-08439; PS3.2-1TH2P-0583

Cicchetti, A.; Calabrese, D.; Flamini, E.; Giuppi, S.; Nenna, C.; Noschese, R.; Orosei, R.; Plaut, J.J.; Safaeinili, A.; Seu, R.
Closest radar observation of Phobos by MARSIS

XY0584; EGU2008-A-05404; PS3.2-1TH2P-0584

Combe, J-Ph.; McCord, T. B.
Mars-Express/HRSC spectral data analyzed by a Multiple-Endmember Linear Spectral Linear Unmixing Model (MELSUM)

XY0585; EGU2008-A-11280; PS3.2-1TH2P-0585

Duru, F.; Gurnett, D.A.; Akalin, F.; Winningham, J.D.; Modolo, R.
Identification of the boundary between the ionosphere of Mars and the magnetosheath using MARSIS data (cancelled)

XY0586; EGU2008-A-11316; PS3.2-1TH2P-0586

Farahani, A.; Lange, C.F.
Effect of natural convection on the mass transfer coefficient from the Martian regolith

XY0587; EGU2008-A-10490; PS3.2-1TH2P-0587

Ferri, F.; Ball, A.J.; ExoMars EDLS science team
ExoMars Entry and Descent Science

XY0588; EGU2008-A-11463; PS3.2-1TH2P-0588

Fleischer, I.; Klingelhöfer, G.; Morris, R.V.; Schröder, C.; Rodionov, D.
Analysis of 6.4 keV Mössbauer Spectra obtained with MIMOS II on MER on Cobbles at Meridiani Planum, Mars

XY0589; EGU2008-A-05045; PS3.2-1TH2P-0589

Gómez-Elvira, J.; REMS Team
Mars Environmental Monitoring Instrument for MSL rover

XY0590; EGU2008-A-11078; PS3.2-1TH2P-0590

Gwinner, K.; Roatsch, T.; Matz, K.-D.; Scholten, F.; Elgner, S.; Preusker, F.; Oberst, J.; Jaumann, R.; Heather, D.; Neukum, G.
Stereo data products of the HRSC Experiment onboard Mars Express for the PSA and PDS archives

XY0591; EGU2008-A-08751; PS3.2-1TH2P-0591

Harri, A.-M.; Linkin, V.; Pichkadze, K.; Schmidt, W.; Polkko, J.; Pellinen, R.; Vazquez, L.; Guerrero, H.; Uspensky, M.; Lipatov, A.
MMPM - MetNet Mars Precursor Mission

XY0592; EGU2008-A-11861; PS3.2-1TH2P-0592

Holstein-Ratlau, C.; **Gunnlaugsson, H. P.;** Jensen, S. K.; Lange, C. F.; Madsen, M.B.; Merrison, J. P.; Nørnberg, P.; Smith, P.
The Telltale Wind Experiment for the NASA Phoenix Mars Lander 2008

XY0593; EGU2008-A-04637; PS3.2-1TH2P-0593

Hsu, H. J.; Jian, J. J.; Ip, W. H.
Morphological and Spectral Study of Rampart Craters on Mars

XY0594; EGU2008-A-04501; PS3.2-1TH2P-0594

Jian, J. J.; Ip, W. H.
A study of the seasonal variations of the Cryptic Region on Mars using multi-spacecraft observational data

XY0595; EGU2008-A-09135; PS3.2-1TH2P-0595

Jouglet, D.; Poulet, F.; Bibring, J.P.; Vincendon, M.; Langevin, Y.; Gondet, G.
Search for carbonates on Mars with the OMEGA L channel calibrated data.

XY0596; EGU2008-A-05047; PS3.2-1TH2P-0596

Kartashov, D.V.; Turchin, V.I.; Orosei, R.; Ivanov, A.; Schuko, O.B.
Direct reconstruction of dielectric constant profile from orbital based radar sounder data

XY0597; EGU2008-A-01270; PS3.2-1TH2P-0597
Kochemasov, G.
 Destruction of the martian tropical belt as means of the angular momentum equilibration between the tropic and extra-tropical regions

XY0598; EGU2008-A-10305; PS3.2-1TH2P-0598
Le Maistre, S.; Rosenblatt, P.; Marty, J.C.; Dehant, V.; Karatekin, O.; Rivoldini, A.
 Improvement of Mars' orientation and rotation model from the LaRa experiment onboard ExoMars.

XY0599; EGU2008-A-10018; PS3.2-1TH2P-0599
Litvak, M.L.; Mitrofanov, I.G.; Mokrousov, M.I.; Malakhov, A.V.; Vostrukhin, A.A.; Behar, A.; Boynton, W.V.
 Dynamic Albedo of Neutrons instrument onboard Mars Science Laboratory 2009

XY0600; EGU2008-A-01993; PS3.2-1TH2P-0600
Majeed, T.; Shinagawa, H.; Bougher, S. W.
 An analysis of MGS-RSS electron density profiles with an improved 1-D MHD model

XY0601; EGU2008-A-09432; PS3.2-1TH2P-0601
Mateshvil, N.; Fussen, D.; Vanhellemont, F.; Bingen, C.; Dodion, J.; Daerden, F.; Verhoeven, C.; Montmessin, F.; Bertaux, J.L.
 Martian water ice clouds: two Martian years of SPICAM UV nadir measurements.

XY0602; EGU2008-A-10434; PS3.2-1TH2P-0602
Melchiorri, R.; Roush, T.; Haberle, R.; Brown, A.; Encrenaz, T.; THE CRISM TEAM
 Louth crater: Water vapour distribution as seen by CRISM/MRO

XY0603; EGU2008-A-11684; PS3.2-1TH2P-0603
 Picardi, G.; Masdea, A.; Piccari, F.; Seu, R.
 MARSIS inversion approach

XY0604; EGU2008-A-10436; PS3.2-1TH2P-0604
Rosenblatt, P.; Le Maistre, S.; Marty, J.C.; Dehant, V.
 Numerical simulations of a geodetic orbital experiment for future mission to Mars

XY0605; EGU2008-A-07999; PS3.2-1TH2P-0605
Schmidt, F.; Douté, S.; Schmidt, B.; Vincendon, M.; Langevin, Y.; Bibring, J.-P.; OMEGA TEAM, THE
 Total accumulation of the seasonal south polar cap of Mars

XY0606; EGU2008-A-01817; PS3.2-1TH2P-0606
Wendt, L.; Combe, J.-P.; McCord, T. B.; Neukum, G.
 The Mapping Potential of the HRSC Color Data

PS3.3 Venus Express: two years in orbit – Posters

Convener: Titov, D.
 Co-Convener(s): Svedhem, H.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: TITOV, D.

XY0607; EGU2008-A-01012; PS3.3-1TH2P-0607
Gubenko, V.N.; Andreev, V.E.; Pavelyev, A.G.
 The regular thin structure of the upper cloud layer of the Venus northern polar atmosphere observed from radio occultation data

XY0608; EGU2008-A-01079; PS3.3-1TH2P-0608
Belyaev, D. A.; Korabiev, O. I.; Fedorova, A. A.; Bertaux, J.-L.; Vandaele, A.-C.; Neefs, E.; Wilquet, V.; Mahieux, A.
 First observations of SO₂ above Venus's $\chi^{1/2}$ clouds by means of solar occultation in the infrared

XY0609; EGU2008-A-01916; PS3.3-1TH2P-0609
Barthelemy, M.; Heather, D.J.; Vazquez, J.L.; Witasse, O.; Manaud, N.; Ortiz, I.; Arviset, C.
 Venus Express data distribution via the Planetary Science Archive

XY0610; EGU2008-A-02512; PS3.3-1TH2P-0610
Volwerk, M.; Delva, M.; Zhang, T.L.; Baumjohann, W.; Glassmeier, K.H.; Treumann, R.A.
 Mirror Mode Waves in Venus' Magnetosheath

XY0611; EGU2008-A-04889; PS3.3-1TH2P-0611
Luhmann, J.G.; McEnulty, T.; Brain, D.A.; Fedorov, A.; Barabash, S.; Futaana, Y.; Zhang, T.-L.; Russell, C.T.; Howard, R.A.; Thompson, W.T.
 Survey of Venus space weather events and responses observed with the VEX and STEREO missions

XY0612; EGU2008-A-06408; PS3.3-1TH2P-0612
Politi, R.; Piccioni, G.; Drossart, P.; Cardesin Moinelo, A.; VIRTIS-Venus Express team
 Dynamical and morphological evolution of Venus Southern polar vortex

XY0613; EGU2008-A-07069; PS3.3-1TH2P-0613
Erard, S.; Drossart, P.; Piccioni, G.; the Virtis-VEx team
 Multivariate analysis of Virtis/Venus-Express night side observations

XY0614; EGU2008-A-10366; PS3.3-1TH2P-0614
 Wei, H. Y.; **Russell, C. T.**; Zhang, T. L.; Luhmann, J. G.; Delva, M.
 Flux-rope formation in the ionosphere of Venus: mechanisms and observations

XY0615; EGU2008-A-11015; PS3.3-1TH2P-0615
Palomba, E.; Longobardo, A.; Zinzi, A.; Tsang, C.; Piccioni, G.; Helbert, J.; VIRTIS-Venus Express Team
 Venus surface properties from the analysis of the spectral slope @ 1.03-1.04 microns

XY0616; EGU2008-A-12307; PS3.3-1TH2P-0616
Basilevsky, A.; Shalygin, E.; Scholten, F.; Titov, D.; Markiewicz, W.
 Surface observations by Venus Monitoring Camera

XY0617; EGU2008-A-10632; PS3.3-1TH2P-0617
 Wei, H. Y.; **Russell, C. T.**; Zhang, T. L.; Strangeway, R. J.; Luhmann, J. G.; Delva, M.
 Plasma waves near the ionopause of Venus

PS3.5 Atmospheres of terrestrial planets

Convener: Markiewicz, W.
 Co-Convener(s): Montmessin, F.
 Lecture Room 11
 Chairperson: MONTMESSIN, F.; MARKIEWICZ, W.

8:30–8:45; EGU2008-A-01726; PS3.5-1TH10-001
Tellmann, S.; Pätzold, M.; Häusler, B.; Tyler, G.L.; Hinson, D.P.
 The Martian neutral atmosphere from the Radio Science Experiment MaRS on Mars Express

8:45–9:00; EGU2008-A-09309; PS3.5-1TH10-002
 Kutepov, A.A.; Feofilov, A.G.; **Medvedev, A.S.**; Rezac, L.; Smith, M.
 Martian Atmosphere Temperature at 60-100 km Retrieved from the MGS/TES Bolometer Infrared Limb Radiances

9:00–9:15; EGU2008-A-08483; PS3.5-1TH10-003
Altieri, F.; Zasova, L.; Bellucci, G.; Carrozzo, F.G.; D'Aversa, E.; Gondet, B.; Bibring, J.P.
 Ozone apparent abundances as seen by the OMEGA/MEX

9:15–9:30; EGU2008-A-04365; PS3.5-1TH1O-004
Kleinboehl, A.; Schofield, J. T.; Kass, D. M.; Abdou, W. A.; McCleese, D. J.
Retrieval of profiles of Mars atmospheric temperature, dust and water ice from Mars Climate Sounder measurements

9:30–9:45; EGU2008-A-05098; PS3.5-1TH1O-005
Szego, K.; Bebesi, Z.; Dobe, Z.; Fraenz, M.; Fedorov, A.; Barabash, S.; Coates, A.J.; Zhang, T.L.
The ion flow below the magnetic barrier at Venus

9:45–10:00; EGU2008-A-06842; PS3.5-1TH1O-006
Pätzold, M.; Häusler, B.; Tellmann, S.; Bird, M.K.; Tyler, L.
The Structure of the Venus Ionosphere

10:00–10:15; EGU2008-A-10586; PS3.5-1TH1O-007
Keating, G.; Bougher, S.; Theriot, M.; Tolson, R.
The Mars Upper Atmosphere

10:15 COFFEE BREAK

Chairperson: MONTMESSIN, F.; MARKIEWICZ, W.

10:30–10:45; EGU2008-A-05748; PS3.5-1TH2O-001
Liang, MC; Parkinson, CD; Bougher, SW; Yung, YL
Modeling the Distribution of H₂O and HDO in the upper atmosphere of Venus

10:45–11:00; EGU2008-A-09348; PS3.5-1TH2O-002
Gérard, J.-C.; Cox, C.; Saglam, A.; Bertaux, J.-L.; Piccioni, G.; Drossart, P.
Remote sensing of O and N distribution and transport from night airglow observations with Venus Express

11:00–11:15; EGU2008-A-07666; PS3.5-1TH2O-003
Migliorini, A.; Zasova, L.; Shakun, A.; Piccioni, G.; Drossart, P.; VIRTIS-Venus Express team
On the oxygen airglow on Venus, with VIRTIS data.

11:15–11:30; EGU2008-A-06530; PS3.5-1TH2O-004
Grassi, D. ; Migliorini, A.; Drossart, P.; Piccioni, G.; Piccialli, A.; Ignatiev, N.I.; Irwin, P.G.J.; THE VIRTIS/Venus Express Team
Overview of Venus mesospheric temperatures as observed by VIRTIS/Venus Express

11:30–11:45; EGU2008-A-10059; PS3.5-1TH2O-005
Limaye, S.; Markiewicz, W.; Titov, D.; Moissl, R.
Atmospheric Circulation from VMC Digital Tracking

11:45–12:00; EGU2008-A-10488; PS3.5-1TH2O-006
Widemann, T.; Lellouch, E.
Venus wind regime at clouds top

12:00 END OF SESSION

PS7 Spectroscopy and Radiative Transfer in Planetary Atmospheres

Convener: Martin-Torres, J.
Co-Convener(s): Flaud, J., Rothman, L., Crisp, D., Mlynchak, M.
Lecture Room 8
Chairperson: N.N.

15:30–16:00; EGU2008-A-06103; PS7-1TH4O-001
Crisp, D.
Frontiers in radiative transfer for remote sensing and climate modeling of Venus and Mars (solicited)

16:00–16:15; EGU2008-A-01532; PS7-1TH4O-002
Fomin, B.

Evolution of spectroscopic information over the last years and its effect on line-by-line calculations for validation of radiative transfer models for planetary atmospheres (solicited)

16:15–16:30; EGU2008-A-00991; PS7-1TH4O-003
Orphal, J.

High-resolution spectroscopy in the near-infrared for atmospheric applications (solicited)

16:30–16:45; EGU2008-A-00650; PS7-1TH4O-004
Boudon, V.; Champion, J.-P.; Loëte, M.; Wenger, Ch.

Present status of methane spectroscopy for planetary applications (solicited)

16:45–17:00; EGU2008-A-01468; PS7-1TH4O-005
Dufour, G.; Boone, C.; Walker, K.; Bernath, P.

Retrieval of minor tropospheric constituents from the ACE-FTS instrument onboard the Scisat-1 satellite and applications (solicited)

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-04339; PS7-1TH5O-001
Slanger, T.G.; Kalogerakis, K.S.; Romanescu, C.; Lee, L.C.; Ahmed, M.; Wilson, K.R.
The visible dayglow emission at Venus and Mars; some conclusions from laboratory measurements (solicited)

17:45–18:00; EGU2008-A-00531; PS7-1TH5O-002
Yung, Y.; Zhang, X.; Liang, M.; Shia, R.; Orton, G.; Mainzer, A.; Burgdorf, M.
Radiative Modeling of the Atmosphere of Neptune (solicited)

18:00–18:15; EGU2008-A-02135; PS7-1TH5O-003
Drossart, P.; Piccioni, G.; the VIRTIS/Venus Express team
Radiative transfer models for VIRTIS observations on Venus Express (solicited)

18:15–18:30; EGU2008-A-04817; PS7-1TH5O-004
Kutepov, A.A.; Feofilov, A.G.; Manuilova, R.O.; Yankovsky, V.A.; Rezac, L.; Pesnell, W.D.; Goldberg, R.A.
The ALI-ARMS Code for Modeling the Atmospheric Non-LTE Molecular Band Emissions: Current Status and Applications (solicited)

18:30–18:45; EGU2008-A-10336; PS7-1TH5O-005
Mertens, C.
Storm-Time Characterization and Analysis of Earth's Ionospheric E-Region from TIMED/SABER Observations of Broadband 4.3 μ m Limb Emission (solicited)

18:45–19:00; EGU2008-A-08084; PS7-1TH5O-006
Tinetti, G.
Detecting molecules in the atmospheres of transit exoplanets (solicited)

19:00 END OF SESSION

PS9 Extrasolar Planets and Planet Formation Session

Convener: Cho, J.
Co-Convener(s): Rauer, H., Winterhalter, D., Hatzes, A., Krot, A.
Lecture Room 8
Chairperson: N.N.

13:30–13:45; EGU2008-A-10341; PS9-1TH3O-001
Kotani, T.; Perrin, G.; Lacour, S.; Thiebaud, E.; Berger, J.; Borde, P.; Lai, O.; Woillez, J.; Fedou, P.; Ridgway, S.
The FIRST instrument to detect extra-solar planets at visible to near-infrared wavelengths from the ground (solicited)

13:45–14:00; EGU2008-A-02756; PS9-1TH3O-002
Beaulieu, JP; Batista, V.; Cassan, A.; Coutures, C.; Fouque, P.; Kubas, D.; Marquette, JB
Detectin Frozen super Earths by microlensing

14:00–14:15; EGU2008-A-06540; PS9-1TH3O-003
Rauer, H.; von Paris, P.; Grenfell, J. L.
Effect of Cosmic Rays on Atmospheric Biomarker Chemistry on Earth-like Planets with varying magnetospheric Protection in the Habitable Zone of F, G and K-type Stars

14:15–14:30; EGU2008-A-02653; PS9-1TH3O-004
Merin, B.; Cieza, L.; Evans, N.; Stapelfeldt, K.; Alcalá, J.; Harvey, P.; van Dishoeck, E.; Allen, L.; Koerner, D.
‘c2d’ Spitzer results on disk evolution and planet formation (cancelled)

14:30–14:45; EGU2008-A-03397; PS9-1TH3O-005
Nagasawa, M.; Ida, S
The formation of close-in planets through a coupling effect of planet scattering and tidal circularization (solicited)

14:45–15:00; EGU2008-A-07657; PS9-1TH3O-006
McNeil, D.; Nelson, R
Oligarchic formation of short-period Neptunes

15:00 END OF SESSION

Friday

PS3.1 Mercury – Posters

Convener: Benkhoff, J.
Co-Convener(s): Christensen, U.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0556; EGU2008-A-02188; PS3.1-1FR2P-0556
Koch, Ch.; Christensen, U.R.; Kallenbach, R.
Extraction of tidal Love number and forced libration amplitude of Mercury from synthetic laser altimetry records

XY0557; EGU2008-A-02393; PS3.1-1FR2P-0557
Marti, K.; Gunderson, K.; Seiferlin, K.; Thomas, N.
The BepiColombo Laser Altimeter Rangefinder Electronics

XY0558; EGU2008-A-08711; PS3.1-1FR2P-0558
Rivoldini, A.; Van Hoolst, T.; Verhoeven, O.
The Interior Structure of Mercury

XY0559; EGU2008-A-05156; PS3.1-1FR2P-0559
Ferrandiz, J.M.; **Barkin, Yu.V.**
Generalized Cassini’s motion of Mercury with liquid core and its librations

XY0560; EGU2008-A-05194; PS3.1-1FR2P-0560
Laurenza, M.; Storini, M.; Gardini, A.
SEP contribution to Mercury’s fluorescence [*]

XY0561; EGU2008-A-04901; PS3.1-1FR2P-0561
Kameda, S.; Yoshikawa, I.; Nozawa, H.; Ono, J
Temporal variability in Mercury’s exospheric sodium density

XY0562; EGU2008-A-08418; PS3.1-1FR2P-0562
Saito, Y.; Sauvaud, J. A.; Hirahara, M.; Barabash, S.; Delcourt, D.; Takashima, T.; Asamura, K.
Mercury Plasma/Particle Experiment (MPPE) onboard BepiColombo/MMO

XY0563; EGU2008-A-09131; PS3.1-1FR2P-0563
Mura, A.; Wurz, P.; Lammer, H.; Milillo, A.; Orsini, S.; Lichtenegger, H.; Schleicher, H.; Massetti, S.
The Sodium exosphere of Mercury. Comparison between observations and model

XY0564; EGU2008-A-10128; PS3.1-1FR2P-0564
Kozyrev, A.; Mitrofanov, I.; Litvak, M.; Rogozhin, A.; Sanin, A.; Tretyakov, V.; Gurvits, L.; Schvetsov, V.; Mokrousov, M
Mercury gamma-ray and neutron spectrometer (MGNS) for exploration of Mercury subsurface composition onboard ESA BepiColombo mission

XY0565; EGU2008-A-05378; PS3.1-1FR2P-0565
Livi, S.A.; Ho, G.; Haggerty, D.
STROFIO: Exospheric Sampling of Mercury’s Surface Composition

XY0566; EGU2008-A-10526; PS3.1-1FR2P-0566
Blomberg, L. G.; Cumnock, J. A.; Glassmeier, K.-H.; Treumann, R. A.
Plasma waves in the Hermean magnetosphere

XY0567; EGU2008-A-04549; PS3.1-1FR2P-0567
Kallio, E.; Jarvinen, R.; Janhunen, P.; Liu, K.
Induced magnetic field within Mercury

XY0568; EGU2008-A-06180; PS3.1-1FR2P-0568
Borin, P.; Cremonese, G.; Marzari, F.
Statistical analysis of micrometeoroids flux at the heliocentric distance of Mercury

XY0569; EGU2008-A-05907; PS3.1-1FR2P-0569
Sasaki, S.; Hiroi, T.
Difference of space weathering among the Moon, Mercury, and asteroids

PS3.2 Mars Science & Exploration

Convener: Chicarro, A.
Lecture Room 15
Chairperson: MITROFANOV, I.

8:30–8:45; EGU2008-A-10130; PS3.2-1FR1O-001
Neukum, G.
The Lunar and Martian Cratering Records and Chronologies

8:45–9:00; EGU2008-A-03869; PS3.2-1FR1O-002
Jaumann, R.; Reiss, D.; Sander, T.; Tirsch, D.; Gwinner, K.; Hauber, E.; Neukum, G.
Source regions and multiple water release events in Valley Networks of the Libya Montes Region on Mars

9:00–9:15; EGU2008-A-05135; PS3.2-1FR1O-003
Hiesinger, H.; Reiss, D.; Dude, S.; Ohm, C.; Head III, J. W.; Neukum, G.
Rheologic Properties of Young Lava Flows on the Tharsis Montes, Mars

9:15–9:30; EGU2008-A-09479; PS3.2-1FR1O-004
Bibring, J-P.; and the OMEGA, team
OMEGA/Mars Express: 4 years of VIS/NIR hyperspectral mapping

9:30–9:45; EGU2008-A-08347; PS3.2-1FR1O-005
Poulet, F.; Jouglet, D.; Boubin, G.; Arvidson, R.E.; Langevin, Y.; Bibring, J.-P.; Gondet, B.
Mineralogy of high latitudes of Mars

9:45–10:00; EGU2008-A-09744; PS3.2-1FR1O-006
Gondet, B.; Langevin, Y.; Bibring, J.P.; Poulet, F.
co₂ and h₂o frosts at mid latitude, mapped and monitored by OMEGA/Mars Express

10:00 COFFEE BREAK

Chairperson: ECONOMOU, T.E.

10:30–10:45; EGU2008-A-11529; PS3.2-1FR2O-001
Bishop, J. L.; McKeown, N. K.; Parente, M.; Noe Dobra, E. Z.; Bibring, J.-P.; Calvin, W. M.; Ehlmann, B. L.; Milliken, R. E.; Mustard, J. F.; Murchie, S. L.; The CRISM Team
Characterization of aqueous processes on Mars through identification of phyllosilicates, sulfates and hydrated silica using CRISM hyperspectral images

10:45–11:00; EGU2008-A-07843; PS3.2-1FR2O-002
Mitrofanov, I.; Boynton, W.; Litvak, M.; Demidov, N.
Studies of content of phyllosilicates in different regions of Mars based on data from Gamma-Ray Spectrometer suite (Mars Odyssey)

11:00–11:15; EGU2008-A-06302; PS3.2-1FR2O-003
Diez, B.; Maurice, S.; Gasnault, O.; d'Uston, L.; Feldman, W. C.; Baratoux, D.; Mangold, N.
Comparison of the Mars Odyssey GRS results with geological mapping at the Cerberus Plains

11:15–11:30; EGU2008-A-09397; PS3.2-1FR2O-004
Brückner, J.; Gellert, R.; Dreibus, G.; Athena Science Team, MER.
Chemical composition of Meridiani Planum sediments and precursor material: Measurements by the APXS onboard the Mars Exploration Rover Opportunity

11:30–11:45; EGU2008-A-11860; PS3.2-1FR2O-005
Møhlholt, T.E.; **Gunnlaugsson, H. P.;** Merrison, J. P.; Morris, R. V.; Nørnberg, P.
Mössbauer and VNIR Study of Dust Generated From Olivine Basalt: Application to Mars

11:45–12:00; EGU2008-A-04114; PS3.2-1FR2O-006
Michel, N.; Baratoux, D.; D'Uston, L.; Rabinowicz, M.; Forni, O.
Martian crust heterogeneities: implications for its thermal and physical properties

12:00 LUNCH BREAK

Chairperson: LANGLAIS, B.

13:30–13:45; EGU2008-A-05381; PS3.2-1FR3O-001
Taylor, F.W.; McCleese, D.J.; Schofield, J.T.; Kleinböhl, A.; The Mars Climate Sounder Team
The current Martian climate observed by the Mars Climate Sounder on the Mars Reconnaissance Orbiter

13:45–14:00; EGU2008-A-01946; PS3.2-1FR3O-002
Owen, T.
The Atmosphere of Mars: Sources and Sinks

14:00–14:15; EGU2008-A-07229; PS3.2-1FR3O-003
Geminale, A.; Formisano, V.; Giuranna, M.
Methane in martian atmosphere: average spatial, diurnal and seasonal behaviour

14:15–14:30; EGU2008-A-04863; PS3.2-1FR3O-004
Atreya, S.; Delory, G.; Encrenaz, T.; Formisano, V.; Farrell, W.; Mahaffy, P.; Mumma, M.; Renno, N.
Martian methane: faster destruction, bigger source

14:30–14:45; EGU2008-A-03645; PS3.2-1FR3O-005
Depiesse, C.; Willame, Y.; **Muller, C.;** Moreau, D.; Daerden, F.; Gillotay, D.
Ozone maps and Martian surface UV from more than one Martian year of SPICAM data.

14:45–15:00; EGU2008-A-12029; PS3.2-1FR3O-006
Economou, T. E.
Mars atmosphere argon density measurement on MER mission

15:00 COFFEE BREAK

Chairperson: HIESINGER, H.

15:30–15:45; EGU2008-A-04516; PS3.2-1FR4O-001
Safaenili, A.; Plaut, J.; Holt, J.; Phillips, R.; Gim, Y.; Orosei, R.; Biccari, D.; Seu, R.; Picardi, G.
Recent results from MARSIS and SHARAD radar sounders

15:45–16:00; EGU2008-A-08952; PS3.2-1FR4O-002
Orosei, R.; Federico, C.; Flamini, E.; Frigeri, A.; Holt, J. W.; Pettinelli, E.; Phillips, R. J.; Picardi, G.; Safaenili, A.; Seu, R.
Radar subsurface sounding over the putative frozen sea in Cerberus Palus, Mars

16:00–16:15; EGU2008-A-10719; PS3.2-1FR4O-003
Morgan, D.; Gurnett, D.; Fox, J.; Crider, D.; Nielsen, E.; Modolo, R.; Krymskii, A.; Plaut, J.; Picardi, G.
Variation of the martian ionosphere detected by Mars Express radar sounding

16:15–16:30; EGU2008-A-03648; PS3.2-1FR4O-004
Lundin, R.; Barabash, S.; Holmström, M.; Nilsson, H.; Yamauchi, M.; Fraenz, M.; Dubinin, E.M.
Solar Forcing and the Comet-like Escape of Ionospheric Plasma from Mars

16:30–16:45; EGU2008-A-10241; PS3.2-1FR4O-005
Vennerstrom, S.; **Falkenberg, T.V.;** Merayo, J.M.
Magnetic Storms at Mars

16:45–17:00; EGU2008-A-08810; PS3.2-1FR4O-006
Langlais, B.; Begaudeau, K.; Le Mouelic, S.
Magnetic anomalies in and around Hellas Basin, Mars

17:00 COFFEE BREAK

Chairperson: OROSEI, R.

17:30–17:45; EGU2008-A-06378; PS3.2-1FR5O-001
Chicarro, A. F.
Mars-NEXT Ð A future step in the European exploration of Mars

17:45–18:00; EGU2008-A-05229; PS3.2-1FR5O-002
Chassefiere, E.
Possible atmospheric science objectives for the MarsNEXT mission

18:00–18:15; EGU2008-A-11273; PS3.2-1FR5O-003
Dehant, V.; Folkner, S.W.; Orban, D.; Renotte, E.; Le Maistre, S.; Mitrovic, M.; Chicarro, A.; The LaRa Team
The geodesy experiment LaRa (Lander Radioscience, onboard ExoMars) and future radioscience experiments.

18:15–18:30; EGU2008-A-09295; PS3.2-1FR5O-004

Grott, M.; Spohn, T.; Wiczorek, M.A.

Accessing the Martian subsurface - Science return from the Heat Flow and Physical Properties Package (HP3)

18:30–18:45; EGU2008-A-10855; PS3.2-1FR5O-005

Ciarletti, V.; Corbel, Ch.; Dolon, F.; Dechambre, M.; Le Gall, A.; Jeangeot, A.; Plettemeier, D.; Hamran, S.E.; Cais, Ph.; THE WISDOM TEAM

The WISDOM radar on the exomars mission : 3D characterization of the shallow sub-surface

18:45–19:00; EGU2008-A-07183; PS3.2-1FR5O-006

Gómez, F.; Prieto-Ballesteros, O.; Fernández-Remolar, D.; Rodriguez, N.; Amils, R.

Halophilic habitats: earth analogs to study Mars habitability and Mars surface simulation conditions with extremophiles

19:00 END OF SESSION

PS3.5 Atmospheres of terrestrial planets – Posters

Convener: Markiewicz, W.

Co-Convener(s): Montmessin, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: MONTMESSIN, F.; MARKIEWICZ, W.

XY0570; EGU2008-A-10707; PS3.5-1FR2P-0570

Barkin, Yu.V.

The mechanism of activation of polar atmospheric processes of planets and satellites

XY0571; EGU2008-A-01268; PS3.5-1FR2P-0571

Kochemasov, G.

Atmospheres of terrestrial planets in a row of the Solar system atmospheres around Sun, planets, Titan

XY0572; EGU2008-A-06804; PS3.5-1FR2P-0572

Pätzold, M.; Tellmann, S.; Peter, K.; Mendillo, M.; Withers, P.; Häusler, B.; Hinson, D.P.; Tyler, G.L.

The Structure of the Mars Ionosphere

XY0574; EGU2008-A-10471; PS3.5-1FR2P-0574

Moudden, Y.; Forbes, J.M.

Analysis of the origin of Martian tides using MGS aerobraking densities and a general circulation model

XY0575; EGU2008-A-08249; PS3.5-1FR2P-0575

Montmessin, F.; Gondet, B.; Maattanen, A.; Fouchet, T.; Langevin, Y.; Forget, F.; Bibring, J.-P.; Bertaux, J.-L.; Drossart, P.

CO₂ ice clouds in the upper equatorial atmosphere of Mars

XY0576; EGU2008-A-03373; PS3.5-1FR2P-0576

Verhoeven, C.; Daerden, F.; Larsen, N.; Mateshvili, N.; Fussen, D.; Akingunola, D.; McConnell, J.C.; Kaminiski, J.W.

Detailed microphysical model for Martian water ice clouds driven by a 3D GCM

XY0577; EGU2008-A-03717; PS3.5-1FR2P-0577

Daerden, F.; Akingunola, D.; Verhoeven, C.; McConnell, J.C.; Kaminiski, J.W.; Mateshvili, N.; Fussen, D.

Global modeling of water ice clouds on Mars and comparison to SPICAM observations

XY0578; EGU2008-A-11411; PS3.5-1FR2P-0578

Rogberg, P.; Read, P.L.; Lewis, S.R.; Montabone, L.

Potential vorticity, angular momentum and inertial instabilities in the Martian atmospheric circulation from assimilated analyses of MGS/TES observations

XY0579; EGU2008-A-10457; PS3.5-1FR2P-0579

Montabone, L.; Martinez-Alvarado, O.; Spiga, A.; Lewis, S. R.; Read, P. L.; Forget, F.

Meteorology of the 2001 Martian planet-encircling dust storm in global and mesoscale modelling with data assimilation.

XY0580; EGU2008-A-08577; PS3.5-1FR2P-0580

Altieri, F.; Bellucci, G.; Carrozzo, F. G.; Zasova, L.; Grassi, D.; D'Aversa, E.; Bibring, J.P.; Formisano, V.

Modeling of dust properties during a local dust storm on Atlantis Chaos, Mars

XY0581; EGU2008-A-02254; PS3.5-1FR2P-0581

Marcq, E.; Lebonnois, S.; Crespin, A.; Hourdin, F.

Minor species variations in the deep atmosphere of Venus using a passive transport scheme in the LMD-GCM.

XY0582; EGU2008-A-03909; PS3.5-1FR2P-0582

Lebonnois, S.; Hourdin, F.; Crespin, A.; Eymet, V.; Fournier, R.; Dufresne, J.-L.

Modelling Venus' atmospheric mean meridional circulation: sensitivity to radiative transfer scheme and to specific heat

XY0583; EGU2008-A-07638; PS3.5-1FR2P-0583

Crespin, A.; Lebonnois, S.; Hourdin, F.

Transport of angular momentum and tracers by waves in a Venus General Circulation Model

XY0584; EGU2008-A-09814; PS3.5-1FR2P-0584

Müller, N.; Helbert, J.; Erard, S.; Piccioni, G.; Drossart, P.; The VIRTIS-VEX Team

Atmospheric correction for VIRTIS VEX images of surface thermal emissions

XY0585; EGU2008-A-09448; PS3.5-1FR2P-0585

Peralta, J.; Sánchez-Lavega, A.; Hueso, R.; Piccioni, G.; Lanciano, O.; Drossart, P.

Characterization of gravity waves in the upper and lower clouds of Venus using VIRTIS-VEX images

XY0586; EGU2008-A-10035; PS3.5-1FR2P-0586

Lanciano, O.; Sanchez-Lavega, A.; Hueso, R.; Piccioni, G.; Peralta, J.; VIRTIS-Venus Express team

Study of the dynamical recurrent patterns on Venus from the IR atmospheric windows observed by VIRTIS.

XY0587; EGU2008-A-10307; PS3.5-1FR2P-0587

Rengel, M.; Hartogh, P.; Jarchow, C.

Vertical thermal structure and winds in Venus' Mesosphere from HHSMT

XY0588; EGU2008-A-11266; PS3.5-1FR2P-0588

Piccialli, A.; Titov, D.V.; Grassi, D.; Khatuntsev, I.; Moissl, R.; Piccioni, G.; Markiewicz, W.J.; Drossart, P.

Thermal wind in the Venus mesosphere from the VIRTIS/Venus Express temperature sounding

PS5.0 Small Bodies and Dust

Convener: Krueger, H.

Co-Convener(s): Schwehm, G., Müller, T.

Lecture Room 8

Chairperson: N.N.

13:30–13:45; EGU2008-A-02152; PS5.0-1FR3O-001

Schulz, R.

The Rosetta encounter with asteroid 2867 Steins

13:45–14:00; EGU2008-A-11310; PS5.0-1FR3O-002

Raymond, C. A.; Russell, C. T.; Dawn Science Team

Dawn mission status and plans

14:00–14:15; EGU2008-A-11073; PS5.0-1FR3O-003
Mainzer, A.; Bottke, W.; Chesley, S.; Eisenhardt, P.; Nesvorny, D.; Vokrouhlicky, D.; Walker, R.; Wright, N.
Spitzer-IRAC Photometry of Asteroid 1862 Apollo

14:15–14:30; EGU2008-A-02483; PS5.0-1FR3O-004
Capria, M.T.; Cremonese, G.; De Sanctis, M.C.
High resolution observation at TNG of comet 17P/Holmes

14:30–14:45; EGU2008-A-08447; PS5.0-1FR3O-005
Delanoye, S. N.; De Keyser, J.
Search for the missing CN parent in cometary comae

14:45–15:00; EGU2008-A-07007; PS5.0-1FR3O-006
Lamy, H.; Lemaire, J.
Accretion of matter by the Sun: influence on the solar corona

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-07825; PS5.0-1FR4O-001
Ueno, M.; Ishiguro, M.; Sarugaku, Y.; Pyo, J.; Usui, F.; Ootsubo, T.; Hong, S.; Kwon, S.; Mukai, T.
Visible and infrared observations of interplanetary dust

15:45–16:00; EGU2008-A-06482; PS5.0-1FR4O-002
Srama, R.; Kempf, S.; Moragas-Klostermeyer, G.; Beckmann, U.; Postberg, F.; Hsu, S.; Krueger, H.; Altobelli, N.; Gruen, E.
The search for interstellar dust with CDA onboard Cassini

16:00–16:15; EGU2008-A-05926; PS5.0-1FR4O-003
Hsu, H.W.; Kempf, S.; Burton, M.; Moy, M.
Dynamics of Saturnian stream particles in interplanetary space

16:15–16:30; EGU2008-A-04625; PS5.0-1FR4O-004
Gladysheva, O.G.
Elemental composition of dust particles in the Tunguska body

16:30–16:45; EGU2008-A-04614; PS5.0-1FR4O-005
Gladysheva, O.G.
Organics in the Tunguska Body

16:45 END OF SESSION

PS5.0 Small Bodies and Dust – Posters

Convener: Krueger, H.
Co-Convener(s): Schwehm, G., Müller, T.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0589; EGU2008-A-02069; PS5.0-1FR2P-0589
Zhdanov, S.; Schwabe, M.; Rubin-Zuzic, M.; Thomas, H.; Morfill, G.
Dust density waves in complex plasmas

XY0590; EGU2008-A-05849; PS5.0-1FR2P-0590
Howard, J.
Plasma Sputtering Effects in Planetary Dust Dynamics

XY0591; EGU2008-A-08674; PS5.0-1FR2P-0591
Plainaki, C.; Milillo, A.; Orsini, S.; Mura, A.; De Angelis, E.; Mangano, V.; Massetti, S.
Ion sputtering production on NEO

XY0592; EGU2008-A-11724; PS5.0-1FR2P-0592
Marchi, S.; Mottola, S.; Marzari, F.; Cremonese, G.; Martellato, E.; Carolo, E.
Simulating the cratering history of asteroid (2867) Steins

XY0593; EGU2008-A-03803; PS5.0-1FR2P-0593
Shchuko, O.B.; Shchuko, S.D.; Savinov, S.Yu.; Kartashov, D.V.; Orosei, R.
Kuiper belt objects: formation, thermal evolution and radioactive nuclides

XY0594; EGU2008-A-01753; PS5.0-1FR2P-0594
Kitazawa, Y.; Fukushima, S.; Uchino, M.; Akahoshi, Y.; Goka, T.; Sakurai, A.; Yasaka, T.; Funakoshi, K.; Hanada, T.; Matsumoto, H.
Current problems of meteoroid & debris environment models and related studies of JAXA

XY0595; EGU2008-A-05321; PS5.0-1FR2P-0595
Kulyk, I.; Korsun, P.
Dust trail of distant comet C/2003 WT42 (LINEAR)

XY0596; EGU2008-A-09371; PS5.0-1FR2P-0596
Senger, R.; Igenbergs, E.
Hyperbolic dust particle populations in the Mars Dust Counter data: A closer look

XY0597; EGU2008-A-01269; PS5.0-1FR2P-0597
Kochemasov, G.
Grainy structures of saturnian satellites and rings

XY0598; EGU2008-A-04620; PS5.0-1FR2P-0598
Gladysheva, O.G.
Structure of the Tunguska body

XY0599; EGU2008-A-04622; PS5.0-1FR2P-0599
Gladysheva, O.G.
Dust particles in the Tunguska body substance

PS6.0 Planetary Plasma Physics

Convener: Kallio, E.
Co-Convener(s): Bertucci, C.
Lecture Room 11
Chairperson: N.N.

13:30–13:45; EGU2008-A-05581; PS6.0-1FR3O-001
Krimigis, S.; Acuna, M.; Andrews, G.; Anderson, B.; Baker, D.; Gloeckler, G.; Gold, R.; Ho, G.; Korth, H.; Livi, S.; The MESSENGER Team
Overview of plasma, energetic particles, and magnetic fields in Mercury's magnetosphere: First results from MESSENGER (solicited)

13:45–14:00; EGU2008-A-04431; PS6.0-1FR3O-002
Slavin, J.A.
MESSENGER observations of the solar wind interaction with Mercury: Magnetopause and bow shock

14:00–14:15; EGU2008-A-07595; PS6.0-1FR3O-003
Whittaker, I.; Grande, M.; Guymer, G.; The ASPERA Team
Ion build up by species and energy in the Venusian upper atmosphere

14:15–14:30; EGU2008-A-06362; PS6.0-1FR3O-004
Liu, K.; Jarvinen, R.; Kallio, E.; Lammer, H.; Lichtenegger, H.I.M.; Kulikov, Y. N.; Terada, N.; Janhunen, P.
Venus-Solar Wind Interaction under Extremely High-density Solar Wind

14:30–14:45; EGU2008-A-06773; PS6.0-1FR3O-005
Dubinin, E.; Modolo, R.; Fraenz, M.; Gurnett, D.; Woch, J.; Lundin, R.; Barabash, S.
Structure and dynamics of the solar wind/ionosphere interface on Mars. ASPERA-3 and MARSIS observations on MEX

14:45–15:00; EGU2008-A-06661; PS6.0-1FR3O-006
Fraenz, M.; Dubinin, E.; Martinecz, C.; Roussos, E.; Woch, J.; Coates, A.J.; Barabash, S.; Lundin, R.; Zhang, T.L.
Plasma Boundaries at Mars and Venus

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-03113; PS6.0-1FR4O-001
Galli, A.; Fok, M. C.; Ekenbäck, A.; Kallio, E.; Wurz, P.; Barabash, S.; Grigoriev, A.; Futaana, Y.; Holmström, M.; Gunell, H.

A statistical analysis of the hydrogen ENA observations at Mars and Venus

15:45–16:00; EGU2008-A-07413; PS6.0-1FR4O-002
Radioti, A.; Tomas, A. T.; Grodent, D.; Gerard, J.-C.; Bonfond, B.; Gustin, J.; Krupp, N.; Woch, J.
Jupiter's diffuse auroral emissions - Comparison of HST and Galileo data

16:00–16:15; EGU2008-A-05244; PS6.0-1FR4O-003
Grodent, D.; Bonfond, B.; Gérard, J.-C.; Radioti, A.; Clarke, J.T.; Nichols, J.
Observational evidence of a localized magnetic anomaly near Jupiter's North Pole

16:15–16:30; EGU2008-A-09973; PS6.0-1FR4O-004
Roussos, E.; Krupp, N.; Lagg, A.; Paranicas, C.; Armstrong, T.P.; Mitchell, D.G.; Dialynas, K.; Sergis, N.; Krimigis, S.M.
Access of solar wind MeV ions in Saturn's innermost magnetosphere

16:30–16:45; EGU2008-A-05550; PS6.0-1FR4O-005
Sergis, N.; Krimigis, S. M.; Hamilton, D.; Mitchell, D. G.; Roelof, E. C.; Krupp, N.
Energy content of suprathermal ($> 3\text{keV}$) ions in the Kronian magnetosphere measured by the Magnetospheric Imaging Instrument (MIMI) on Cassini: Magnetic field perturbation.

16:45–17:00; EGU2008-A-07554; PS6.0-1FR4O-006
Southwood, D.; Kivelson, M.
The link between the magnetic field periodicities at Saturn and its pulsing radio emission

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-04824; PS6.0-1FR5O-001
Russell, C.T.; Jackman, C.M.; Ge, Y.S.; Dougherty, M.K.
Substorms at Saturn: Growth phase, triggering, dipolarization and plasmoid formation

17:45–18:00; EGU2008-A-04394; PS6.0-1FR5O-002
Hansen, K. C.; Zieger, B.; Clarke, J. T.; Gombosi, T. I.; Hospodarsky, G. B.; Kurth, W. S.; Nichols, J.
Currents in Saturn's magnetosphere during the January 2007 HST observations

18:00–18:15; EGU2008-A-04413; PS6.0-1FR5O-003
Persoon, A.M.; Gurnett, D.A.; Santolik, O.; Kurth, W.S.; Groene, J.B.; Faden, J.B.
A diffusive equilibrium model for the plasma density in Saturn's inner magnetosphere

18:15–18:30; EGU2008-A-08628; PS6.0-1FR5O-004
Kurth, W.S.; Farrell, W.M.; Leisner, J.S.; Gurnett, D.A.; Wahlund, J.-E.; Garnier, P.; Mitchell, D.G.; Cray, F.
The solar wind interaction with Iapetus

18:30–18:45; EGU2008-A-05109; PS6.0-1FR5O-005
Szego, K.; Bertucci, C.; Coates, A.J.; Bebesi, Z.; Erdos, G.; Hartle, R.; Sittler, E.C.; Young, D.T.
The properties of the ion flow before the T32 flyby

18:45–19:00; EGU2008-A-08268; PS6.0-1FR5O-006
Bertucci, C.; Achilleos, N.; Modolo, R.; Coates, A.J.; Szego, K.; Masters, A.; Ma, Y.; Simon, S.; Russell, C.T.; Mazelle, C.; The T32 Team
Remnant Kronian Magnetic Fields at Titan During Magnetosheath Excursion: Cassini T32 Observations.

19:00 END OF SESSION

PS6.0 Planetary Plasma Physics – Posters

Convener: Kallio, E.
Co-Convener(s): Bertucci, C.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0600; EGU2008-A-04186; PS6.0-1FR2P-0600
Delva, M.; Volwerk, M.; Zhang, T.L.; Voerles, Z.; Pope, S.
Upstream Proton Cyclotron Waves at Venus: the first year of Venus Express observations

XY0601; EGU2008-A-07537; PS6.0-1FR2P-0601
Fedorov, A.; Ferrier, C.; Sauvaud, J.-A.; Barabash, S.; Lundin, R.
Plasma Acceleration in the Martian and Venusian magnetotails. What is the difference?

XY0602; EGU2008-A-07800; PS6.0-1FR2P-0602
FERRIER, C.; Fedorov, A.; Sauvaud, J.A.; Barabash, S.; Lundin, R.; Zhang, T.
Scale comparison between the magnetosheath and tail interface of Mars and Venus

XY0603; EGU2008-A-08063; PS6.0-1FR2P-0603
Guymer, G.; Grande, M.; Whittaker, I.; Wei, H.; The ASPERA Team
Atmospheric erosion by small scale magnetic structures at Venus

XY0604; EGU2008-A-03962; PS6.0-1FR2P-0604
Martinecz, C.; Fraenz, M.; Woch, J.; Krupp, N.; Dubinin, E.; Roussos, E.; Barabash, S.; Zhang, T.L.; Motschmann, U.; Boesswetter, A.
The plasma environment of Venus: comparison of Venus Express ASPERA-4 measurements with 3D hybrid simulations

XY0605; EGU2008-A-06041; PS6.0-1FR2P-0605
Jarvinen, R.; **Kallio, E.;** Zhang, T. L.; Barabash, S.; Fedorov, A.; Sillanpää, I.; Janhunen, P.
Hybrid modelling the induced Venusian magnetosphere when the IMF clock angle is not constant

XY0606; EGU2008-A-07178; PS6.0-1FR2P-0606
Amerstorfer, U.V.; Erkaev, N.V.; Biernat, H.K.
Kelvin-Helmholtz Instability in MHD with FLR Effects and Possible Implications for Venus

XY0607; EGU2008-A-01646; PS6.0-1FR2P-0607
Peter, K.; Pätzold, M.; Häusler, B.; Tellmann, S.; Tyler, G.
Ionopause Features of Mars as observed by the Radio Science Experiment MaRS on Mars Express

XY0608; EGU2008-A-02893; PS6.0-1FR2P-0608
Withers, P.; Mendillo, M.; Hinson, D. P.; Cahoy, K. L.
Morphology of meteoric plasma layers in the ionosphere of Mars as observed by the Mars Global Surveyor Radio Science Experiment

- XY0609**; EGU2008-A-06652; PS6.0-1FR2P-0609
Roussos, E.; Fraenz, M.; Dubinin, E.; Woch, J.; Martinecz, C.; Barabash, S.; Lundin, R.; Coates, A. J.; ASPERA-3 Team, The
 The origin of energetic electron asymmetries in the induced magnetosphere of Mars
- XY0610**; EGU2008-A-09872; PS6.0-1FR2P-0610
Eriksson, A. I.; Edberg, N.; Cully, C. M.; Jansson, J.; Carr, C.; Lundin, R.; Glassmeier, K.-H.; Goldstein, R.; Trotignon, J.-G.
 Rosetta spacecraft potential measurements at Earth and Mars
- XY0611**; EGU2008-A-09305; PS6.0-1FR2P-0611
Galli, A.; Wurz, P.; Futaana, Y.; Barabash, S.; Grigoriev, A.; Holmström, M.
 The ENA albedo of the Martian dayside atmosphere
- XY0612**; EGU2008-A-03917; PS6.0-1FR2P-0612
Bonfond, B.; Grodent, D.; Gérard, J.-C.; Gustin, J.; Radioti, A.; Saur, J.; Jacobsen, S.
 New results on the UV Io footprint morphology and brightness
- XY0613**; EGU2008-A-04357; PS6.0-1FR2P-0613
Zieger, B.; Hansen, K. C.
 Solar wind prediction at Saturn
- XY0614**; EGU2008-A-08331; PS6.0-1FR2P-0614
Alexandrova, O.; Saur, J.
 Turbulent spectrum downstream of the Saturn's bow-shock: Cassini observations
- XY0615**; EGU2008-A-08776; PS6.0-1FR2P-0615
 Kanani, S.; Arridge, C. S.; Jones, G. H.; McAndrews, H.; Fazakerley, A. N.; Krimigis, S. M.; Sergis, N.; Dougherty, M. K.
 Modelling the size and shape of Saturn's magnetopause using dynamic pressure balance
- XY0616**; EGU2008-A-06821; PS6.0-1FR2P-0616
André, N.; Arridge, C. S.; Lamy, L.; Louarn, P.; Bunce, E. J.; Cecconi, B.; Coates, A. J.; Cowley, S. H.; Dougherty, M. K.; Hansen, K. C.; THE CASSINI TAIL TEAM
 Magnetic Field Variations in the Saturnian Magnetotail Induced by Solar Wind Pressure Enhancements
- XY0617**; EGU2008-A-09001; PS6.0-1FR2P-0617
Jackman, C M; Lamy, L.; Cecconi, B.; Freeman, M P; Zarka, P; Dougherty, M K; Kurth, W S
 Relationship between Saturn Kilometric Radiation emissions and kronian magnetotail activity, as compared with the terrestrial case
- XY0618**; EGU2008-A-00210; PS6.0-1FR2P-0618
Goldstein, J; Burch, J; Mokashi, P; Young, D; Leisner, J; Russell, C; Dougherty, M
 Spin-Period Signatures in Cassini Magnetic Field and Particle Data
- XY0619**; EGU2008-A-09678; PS6.0-1FR2P-0619
Arridge, CS; Khurana, KK; André, N; McAndrews, HJ; Russell, CT; Sittler, EC; Coates, AJ; Dougherty, MK
 Periodic crossings of Saturn's magnetospheric current/plasma sheet observed by Cassini CAPS/ELS and MAG
- XY0620**; EGU2008-A-04353; PS6.0-1FR2P-0620
Hospodarsky, G.; Averkamp, T.; Kurth, W.; Gurnett, D.; Persoon, A.; Dougherty, M.; Santolik, O.; Mitchell, D.
 Plasma wave observations at high magnetic latitudes at Saturn
- XY0621**; EGU2008-A-09842; PS6.0-1FR2P-0621
Schippers, P.; Blanc, M.; André, N.; Dandouras, I.; Santos-Costa, D.; Coates, A.J.; Young, D.T.; Krimigis, S.M.
 Analysis of intercalibrated Plasma Observations in Saturn's magnetosphere
- XY0622**; EGU2008-A-04102; PS6.0-1FR2P-0622
Gkini, M.E.; Moncuquet, M.; Meyer-Vernet, N.
 Quasi thermal noise spectroscopy in the inner magnetosphere of Saturn with Cassini/RPWS
- XY0623**; EGU2008-A-05290; PS6.0-1FR2P-0623
Dialynas, K.; Krimigis, S. M.; Mitchell, D. G.
 Preliminary results on the Saturnian neutral cloud density and structure, based on Cassini/MIMI measurements
- XY0624**; EGU2008-A-04749; PS6.0-1FR2P-0624
 Rodriguez-Martinez, M.; Blanco-Cano, X.; **Russell, C. T.**; Leisner, J. S.; Cowee, M.; Dougherty, M. K.
 Harmonic growth of ion cyclotron waves in Saturn's Magnetosphere
- XY0625**; EGU2008-A-04797; PS6.0-1FR2P-0625
Russell, C. T.; Luhmann, J. G.; Neubauer, F. M.; Zhang, T.-L.
 Cleansing the solar system: How the solar wind helps
- XY0626**; EGU2008-A-04388; PS6.0-1FR2P-0626
 Ma, Y. J.; **Russell, C. T.**; Nagy, A. F.; Bertucci, C.; Neubauer, F. M.; Dougherty, M. K.; Cravens, T. E.; Coates, A. J.; Wahlund, J.-E.; Crary, F.J.
 Real-time Global MHD Simulations of Cassini T32 flyby
- XY0627**; EGU2008-A-00287; PS6.0-1FR2P-0627
Simon, S.; Kleindienst, G.; Wiehle, S.; Motschmann, U.; Glassmeier, K.H.; Bertucci, C.L.; Dougherty, M.K.; Arridge, C.S.; Coates, A.J.
 Titan's plasma interaction during the Cassini T32 and T34 flybys: 3D multispecies hybrid simulations
- XY0628**; EGU2008-A-06719; PS6.0-1FR2P-0628
Gronoff, G.; Lilensten, J.; Flueckiger, E.; Desorgher, L.
 The three ionospheres of Titan
- XY0629**; EGU2008-A-02558; PS6.0-1FR2P-0629
 Travnicsek, P.; **Stverak, S.**; Khurana, K. K.; Hellinger, P.; Dougherty, M.
 Hybrid simulation of the interaction of Enceladus's plume with Saturn's magnetosphere

PS7 Spectroscopy and Radiative Transfer in Planetary Atmospheres – Posters

Convener: Martin-Torres, J.
 Co-Convener(s): Flaud, J., Rothman, L., Crisp, D., Mlynarczyk, M.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0630; EGU2008-A-04750; PS7-1FR2P-0630
Jacquinet-Husson, N.; Capelle, V.; Crépeau, L.; Scott, N.A.; Armante, R.; Chédin, A.; Coustenis, A.
 The GEISA 2008 edition: presentation and evaluation for planetary atmosphere studies

XY0631; EGU2008-A-10664; PS7-1FR2P-0631
Ustinov, E
 Adjoint approach to evaluation of weighting functions for remote sensing of scattering planetary atmospheres in thermal spectral region with limb-viewing geometry

XY0632; EGU2008-A-09504; PS7-1FR2P-0632
 Blackie, D; Blackwell-Whitehead, R; Stark, G; Pickering, J.C; Rufus, J; Smith, P; Thorne, A
 Sulphur Dioxide: High resolution ultra-violet absorption cross sections at 200K and 160K

XY0633; EGU2008-A-09456; PS7-1FR2P-0633
Barthelemy, M.; Gronoff, G.; Lilensten, J.; Chaufray, J-Y
Radiative transfer of the oxygen 130nm triplet through the atmosphere of Mars and Venus.

XY0634; EGU2008-A-06653; PS7-1FR2P-0634
Gronoff, G.; Lilensten, J.; Simon, C.; Barthélemy, M.; Dutuit, O.
The Barth vs Frederick/Kopp processes as the source of the nightside green line emission in the atmospheres. The case of Venus.

XY0635; EGU2008-A-11564; PS7-1FR2P-0635
Martin-Torres, F. J.; Letchworth, K. L.; Benner, D. C.
A new algorithm for the implementation of spectroscopic lineshapes and speed-dependence for radiative transfer modeling in planetary atmospheres

XY0636; EGU2008-A-00489; PS7-1FR2P-0636
Manuilova, R.O.; Gusev, O.A.; Kutepov, A.A.; Feofilov, A.G.; Yankovsky, V.A.
The new model of non-equilibrium middle atmosphere radiation in the infrared ro-vibrational water vapor bands.

PS9 Extrasolar Planets and Planet Formation Session – Posters

Convener: Cho, J.
Co-Convener(s): Rauer, H., Winterhalter, D., Hatzes, A., Krot, A.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0637; EGU2008-A-11810; PS9-1FR2P-0637
Baraffe, I.
Structure and evolution of exo-planets

XY0638; EGU2008-A-11812; PS9-1FR2P-0638
Chabrier, G.
Internal heat transport in gaseous exo-planets

XY0639; EGU2008-A-11807; PS9-1FR2P-0639
Cho, J.; Watkins, C.
Gravity waves on extrasolar giant planets

XY0640; EGU2008-A-11813; PS9-1FR2P-0640
Cho, J.; Ipatov, S.
Circulation, cloud, and spectra: a first look at a 3-D model exo-Earth

XY0641; EGU2008-A-04771; PS9-1FR2P-0641
Penz, T.; Wuchterl, G.; Micela, G.; Lammer, H.; Guarcello, M. G.; Kulikov, Yu. N
On the formation and loss of exospheres of short-periodic exoplanets

XY0642; EGU2008-A-03749; PS9-1FR2P-0642
Sozzetti, A.; Casertano, S.; Lattanzi, M.G.; Spagna, A.; Jancart, S.; Morbidelli, R.; Pannunzio, R.; Pourbaix, D.; Queloz, D.
Testing planet formation models with Gaia micro-arcsec astrometry

XY0643; EGU2008-A-08080; PS9-1FR2P-0643
Gerasimov, M. V.; Dikov, Yu. P.; Yakovlev, O. I.
Impact-induced vaporization of magnesiosilicates: the role of “enstatite” clusters.

XY0644; EGU2008-A-00423; PS9-1FR2P-0644
Krot, A.M.
Investigation of spherical waves propagation in a slow-flowing gravitational compressed spheroidal body

XY0645; EGU2008-A-09010; PS9-1FR2P-0645
Umurhan, O.; Shaviv, G.
Tollmien-Schlichting Waves in Planetary Disks

XY0646; EGU2008-A-08921; PS9-1FR2P-0646
Stracke, B.; von Paris, P.; Grenfell, J.L.; Patzer, B.; Rauer, H.
New Modelling Results on the Inner Boundary of the Habitable Zone