

## Sunday 26<sup>th</sup> July, 2009

18:00 - 20:00                      Registration/Reception (Includes Food)

## Monday 27<sup>th</sup> July, 2009

08:45 - 09:00                      Welcome by J. Saur

09:00 - 10:15                      Jupiter

Time	1st Author	Chair: J. Clarke	Page
09:00	Feldman P. D.	FUSE Observations of Jovian Aurora at the Time of the New Horizons Flyby	3
09:15	Tao C.	Characteristics of coupling current and rotational dynamics in the Jovian magnetosphere-ionosphere-thermosphere model	4
09:30	Alexeev I. I.	Dependence of the Jupiter magnetosphere size on the plasma magnetodisk parameters and on the solar wind dynamic pressure	5
09:45	Steff A. J.	MeV Electrons in the Jovian Magnetosphere Detected by the Alice UV Spectrograph Aboard New Horizons	6
10:00	Radioti A.	Auroral signatures of flow bursts released during substorm-like events in the Jovian magnetotail	7

10:15 - 10:45                      Break

10:45 - 12:00                      Io: Flux-tube, Footprints and Torus

Time	1st Author	Chair: F. Bagenal	Page
10:45	Bonfond B. <i>Bertrand</i>	Io UV footprint various spots: position and brightness variations	8
11:00	Wannawichian S. <i>Suicha</i>	Simultaneous study of plasma torus density near Io and the satellite's magnetic footprint brightness	9
11:15	Jacobsen S. <i>Sven</i>	The morphology of equatorial electron beams at Io	10
11:30	Winglee R. M. <i>Robert</i>	Coupled Simulations of Io, the Io Plasma Torus and the Jovian Magnetosphere	11
11:45	Hess S. <i>Sebastien</i>	Power transmission and particle acceleration along the Io Flux tube	12

12:00 - 13:30                      Lunch Break  
 13:30 - 15:15                      The Rotation Rate of Saturn

Time	1st Author	Chair: T. Hill	Page
13:30	Cecconi B.	Modulation of Saturn's auroral radio emissions at or close to the planetary rotation period	13
13:50	Carbary J. F. (by Mitchell D. G.)	Energetic Particle Periodicities at Saturn	14
14:10	Kivelson M. G.	Theories of Rotating Periodicities	15
14:30	Gurnett D. A. (by Kurth W. S.)	A North-South Asymmetry In the Rotational Modulation Period of Saturn Kilometric Radiation	16
14:45	Lecacheux A. (by Southwood D. J.)	Observed Magnetospheric Periodicity	17
15:00	Crary F. J.	Dual periodicities in the magnetospheres of Jupiter and Saturn	18

15:15 - 15:45                      Break  
 15:45 - 17:45                      The Rotation Rate of Saturn

Time	1st Author	Chair: T. Hill	Page
15:45	Vasyliūnas V. M.	The puzzle of SKR and magnetic field periodicities in Saturn's magnetosphere	19
16:00	Goldstein J.	Cause of Saturn's Plasma Cam	20
16:15	Khurana K. K.	Why Does Saturn's Magnetosphere Develop Azimuthal Asymmetries?	21
16:30	Brandt P. C.	Rotational Periodicities in Saturn's Magnetosphere	22
16:45	Mitchell D. G.	Saturn's Clock: Concept for Generating and Maintaining Saturn's Observed Magnetospheric Periodicity	23
17:00	Andrews D. J.	Saturn's equatorial magnetic field oscillations	24

17:15 - 17:45                      GENERAL DISCUSSION  
 (ROTATION RATE)

Tuesday 28<sup>th</sup> July, 2009

09:00 - 11:00 Aurora and SKR

Time	1st Author	Chair: W. Kurth	Page
09:00	Grodent D.	News from outer worlds	27
09:30	Pryor W. R.	Saturn Auroral Images and Movies from Cassini UVIS	28
10:00	Clarke J. T.	The Variability of Auroral Emissions on Jupiter and Saturn	29
10:15	Nichols J. D.	Saturn's equinoctial auroras	30
10:30	Badman S. V.	Location and morphology of Saturn's infrared aurora observed by Cassini VIMS	31
10:45	Stallard T.	Changes in polar ion wind flows during periods of solar wind compression	32

11:00 - 11:30 Break

11:30 - 12:45 Aurora and SKR

Time	1st Author	Chair: P. Zarka	Page
11:30	Bunce E. J.	Auroral current systems at Saturn: Observations from Cassini and the Hubble Space Telescope	33
12:00	Masters A.	Large-scale vorticity in Saturn's outer magnetosphere as a driver of auroral emissions	34
12:15	Kurth W. S.	In Situ Measurements of a Low-Frequency SKR Source Region at Saturn	35
12:30	Lamy L.	An auroral oval at the footprint of Saturn's radiosources, colocated with atmospheric aurorae	36

12:45 - 13:15 GENERAL DISCUSSION (AURORA)

13:15 - 15:00 Poster Session with Pizza

15:30 - ca. 17:00 Sightseeing

19:00 - 22:30 Evening Banquet on the Rhine River

Wednesday 29<sup>th</sup> July, 2009

09:00 - 10:30                      **Saturn's Magnetosphere and  
Comparison with Jupiter**

Time	1st Author	Chair: M. Kivelson	Page
09:00	Arridge C. S.	Global magnetospheric fields of Saturn and Jupiter	39
09:30	Bagenal F.	Models of the Plasma Sheet at Jupiter and Saturn	40
09:45	Ray L. C.	Effect of Field-Aligned Potentials on Magnetospheric Dynamics at Jupiter and Saturn	41
10:00	Mauk B. H.	Radiation Belts of the Solar System	42
10:15	Sergis N.	Structure, variation and pressure balance in the Saturnian plasma sheet. Combined MIMI, CAPS and MAG measurements from Cassini	43

10:30 - 11:00                      **Break**

11:00 - 12:30                      **Plasma Properties of Saturn's Magnetosphere**

Time	1st Author	Chair: C. Paty	Page
11:00	Delamere P. A.	Hot electrons and their influence on the Enceladus and Io tori	44
11:30	Rymer A. M.	Saturn's magnetospheric electrons	45
12:00	Schippers P.	A three-dimensional analysis of the electron populations in Saturn's magnetosphere: identification of the source, transport and sink regions	46
12:15	Paranicas C.	Energetic electron asymmetries near Saturn's main rings	47

12:30 - 14:00                      **Lunch Break**

14:00 - 15:30 **Properties of Plasma and Neutrals in Saturn's Magnetosphere**

<b>Time</b>	<b>1st Author</b>	<b>Chair: D. Mitchell</b>	<b>Page</b>
14:00	Thomsen M. F.	A survey of plasma properties in Saturn's magnetosphere: Cassini CAPS	48
14:15	Armstrong T.	Comments on the Trapped Energetic Ions in the Inner Saturnian Magnetosphere	49
<b>14:30</b>	<b>Smith H. T.</b>	<b>The influence of neutrals on Saturn's magnetosphere</b>	<b>50</b>
15:00	Dialynas K.	Global neutral gas distribution at Saturn derived from ENA images	51
15:15	Burger M.	The Distribution of Neutral Water in Saturn's Inner Magnetosphere	52

15:30 - 16:00 **Break**

16:00 - 17:30 **Interchange and Dynamics in Saturn's Magnetosphere**

<b>Time</b>	<b>1st Author</b>	<b>Chair: E. Bunce</b>	<b>Page</b>
<b>16:00</b>	<b>Andre N.</b>	<b>Interchange instabilities in the Jovian and Saturnian magnetospheres</b>	<b>53</b>
16:30	Hill T. W.	Saturn Simulations with the Rice Convection Model	54
16:45	Kidder A.	The effect of solar wind dynamic pressure on the centrifugal interchange cycle in Saturn's magnetosphere	55
17:00	DeJong A. D.	Low energy electron peaks due to interchange	56
17:15	Alexandrova O.	Magnetic field fluctuations in Saturn's magnetosphere as observed by the Cassini spacecraft	57

Thursday 30<sup>th</sup> July, 2009

09:00 - 10:00                      Dynamics and Mixed Saturn

Time	1st Author	Chair: E. Bunce	Page
09:00	Müller A. L.	Azimuthal plasma flow in the Kronian magnetosphere	61
09:15	Moore L.	The Latitude Dependence of Conductances at Saturn: Cassini Observations and Model Comparisons	62
09:30	Walker R. J.	Vorticity and Magnetic Field Oscillations in Saturn's Morning Magnetosphere	63
09:45	Hansen K. C.	The Response of Currents and Ionospheric Signatures in Saturn's Magnetosphere	64

10:00 - 10:30

Break

10:30 - 11:30

Saturn's Outer Magnetosphere and Foreshock Region

Time	1st Author	Chair: F. M. Neubauer	Page
10:30	Krimigis S. M.	Energetic Ions and Magnetic Fields Upstream From the Noon-to-Dusk Saturnian Bow Shock: Indications of Periodicity	65
10:45	Went D. R.	Magnetic Field Dipolarization in Saturn's Outer Magnetosphere: Search for a Cushion Region	66
11:00	Jackman C. M.	Properties of the magnetic field and plasma in the kronian magnetotail lobes	67
11:15	Kane M.	Saturn's outer magnetosphere: Convection, Reconnection, and Configuration	68

11:30 - 12:00

GENERAL DISCUSSION  
(SATURN MAGNETOSPHERE)

12:00 - 13:30

Lunch Break

13:30 - 15:15                      Satellites (Titan)

Time	1st Author	Chair: F. M. Neubauer	Page
13:30	Young D. T.	Titan's Ionosphere as a Source for the Magnetosphere and Atmosphere	69
14:00	Simon S.	Titan's highly variable plasma interaction: Global numerical simulations and comparison with Cassini data	70
14:30	Snowden D. S.	Titan at the Edge: 3D Multi-fluid Simulations of Titan near Saturn's Magnetopause	71
14:45	Wellbrock A.	Negative ions at Titan - new results	72
15:00	Sittler E. C.	Saturn's Magnetosphere and Properties of Upstream Flow at Titan: Preliminary Results	73

15:15 - 15:45                      Break

15:45 - 17:30                      Satellites with Thin Atmospheres

Time	1st Author	Chair: K. Retherford	Page
15:45	Khurana K. K.	The Interactions of Outer Planetary Satellites with Their Magnetospheres: Non-Magnetized Moons with Thin Atmospheres	74
16:15	Dols V.	A Hybrid Simulation of the Plasma Flow Around Io Coupled to a Multi-species Chemistry Model of Io's Local Interaction	75
16:30	McGrath M.	New Observations of UV Emissions from Europa	76
16:45	Hendrix A. R.	Europa: UV Signatures of Plasma-Surface Interactions	77
17:00	Saur J.	HST observations of Europa's atmospheric UV emission	78
17:15	Schneider N. M.	Discovery of a New High-Speed Atmospheric Ejection Process at Io	79

17:30 - 19:30                      Poster Session with Snacks

Friday 31<sup>st</sup> July, 2009

09:00 - 10:45                      **Satellites (Thin Atmospheres, Ganymede and Enceladus)**

<b>Time</b>	<b>1st Author</b>	<b>Chair: J. Saur</b>	<b>Page</b>
09:00	Jia X.	Global MHD Simulations of Ganymede's Magnetosphere and Their Comparison with Observations	83
09:30	Volwerk M.	Ganymede's field line resonances revisited	84
09:45	Paty C.	Enceladus' Plume: An Overview of Observations and Interpretation Through Multi-fluid Simulations	85
10:15	Coates A. J.	Electrons at Titan and Enceladus: implications for Ganymede and Europa	86
10:30	Jones G. H.	Electrically charged grains in Enceladus's plume	87

10:45 - 11:15                      **Break**

11:15 - 12:00                      **Satellites (Enceladus continued)**

<b>Time</b>	<b>1st Author</b>	<b>Chair: J. Saur</b>	<b>Page</b>
11:15	Kriegel H.	Hybrid Simulations of the Enceladus Plasma Interaction and Comparison with Cassini MAG Data	88
11:30	Krupp N.	The Cassini Enceladus encounters in the view of energetic particle measurements	89
11:45	Roussos E.	Motion of equatorially mirroring energetic electrons near Saturn's inner moons	90

12:00 - 12:30                      **Rings and Dust**

<b>Time</b>	<b>1st Author</b>	<b>Chair: J. Saur</b>	<b>Page</b>
12:00	Tseng W.-L.	A re-examination on the Mass Budget of the Saturn's Ring Atmosphere and Ionosphere at Equinox	91
12:15	Hsu H. W.	Dynamics of the nanometer-size dusts originated from the Jovian and Saturnian systems, Cassini dust detector results	92

12:30 - 13:00                      Exoplanets

Time	1st Author	Chair: J. Saur	Page
12:30	Zarka P.	Planet-Star Plasma Interactions and Possible Radio Emission	93

13:00 - 14:30                      Lunch Break

14:30 - 15:45                      Future Missions/Campaigns

Time	1st Author	Chair: F. Bagenal	Page
14:30	Southwood D. J.	Outer Planets Program of ESA	N/A
15:00	Bolton S.	JUNO and NASA's Outer Planets Program	N/A
15:30	Kasaba Y.	Latest Perspective for the Jovian Magnetospheric Orbiter	94

15:45 - 16:15                      GENERAL DISCUSSION  
(SATELLITES AND OVERALL)

16:15                                  Final Words (J. Saur)

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