

## EGU 2010 – Planetary & Solar System Sciences (PS)

**O: Oral Presentation (Lecture Room) / P: Poster Presentation (First Poster Board)**

**TB: 1: 08:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00 / 6: 19:00–20:00**

Division Business Meeting: We, 12:15–13:15, Room 28

| Session  | Title   | TB | Mo     | Tu        | We        | Th        | Fr |
|--|---|----|--------|-----------|-----------|-----------|----|
| ML1  | Alexander von Humboldt Medal Lecture by Carlos A. Nobre                                 | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           | O (D)     |           |    |
|  |   | 5  |        |           |           |           |    |
| ML4  | Jean Dominique Cassini Medal Lecture by Gerhard Haerendel                               | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           | O (D)     |           |    |
|  |   | 5  |        |           |           |           |    |
| ML23   | David Bates Medal Lecture by Thérèse Encrenaz   | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           | O (28)    |    |
|  |   | 4  |        |           |           |           |    |
|  |   | 5  |        |           |           |           |    |
| ML24   | Runcorn-Florensky Medal Lecture by James W. Head, III                                   | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           | O (28)    |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           |           |           |    |
|  |   | 5  |        |           |           |           |    |
| ML28   | Hannes Alfvén Medal Lecture by Donald Farley  | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           | O (28)    |           |    |
|  |   | 5  |        |           |           |           |    |
| <b>PS1 – Solar System exploration and techniques</b> |   |    |        |           |           |           |    |
| PS1.0  | Exploring the Solar System : Missions, Techniques and policy                            | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        | O (13)    |           |           |    |
|  |   | 5  |        |           | P (XY680) |           |    |
| <b>PS2 – Terrestrial Planets</b>                     |   |    |        |           |           |           |    |
| PS2.0  | Open session on Terrestrial planets   | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           | O (13)    |           |    |
|  |   | 5  |        |           | P (Z215)  |           |    |
| PS2.1  | Mercury   | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        | O (13)    |           |           |    |
|  |   | 5  |        |           | P (XY689) |           |    |
| PS2.2  | Mars Science and Exploration (including David Bates & Runcorn-Florensky Medal Lectures) | 1  |        |           |           |           |    |
|  |   | 2  |        |           |           | O (28)    |    |
|  |   | 3  |        |           |           | O (28)    |    |
|  |   | 4  |        |           |           | O (28)    |    |
|  |   | 5  |        |           |           | P (XL211) |    |
| PS2.3  | Lunar Science and Exploration   | 1  | O (26) |           |           |           |    |
|  |   | 2  | O (26) |           |           |           |    |
|  |   | 3  |        |           |           |           |    |
|  |   | 4  |        |           |           |           |    |
|  |   | 5  |        | P (XY704) |           |           |    |
| PS2.4  | Atmospheres of Terrestrial Planets  | 1  | O (26) |           |           |           |    |
|  |   | 2  | O (27) |           |           |           |    |
|  |   | 3  | O (27) |           |           |           |    |
|  |   | 4  |        |           |           |           |    |
|  |   | 5  |        |           | P (Z231)  |           |    |
| <b>PS3 – Outer planets</b>                           |   |    |        |           |           |           |    |
| PS3.0  | Outer Planets   | 1  |        |           | O (28)    |           |    |
|  |   | 2  |        |           | O (28)    |           |    |
|  |   | 3  |        |           | O (28)    |           |    |
|  |   | 4  |        |           |           |           |    |
|  |   | 5  |        |           | P (Z251)  |           |    |
| PS3.1  | Active satellites with an atmosphere  | 1  |        |           |           |           |    |
|  |   | 2  | O (26) |           |           |           |    |
|  |   | 3  | O (26) |           |           |           |    |
|  |   | 4  | O (26) |           |           |           |    |
|  |   | 5  |        | P (XY724) |           |           |    |
| PS3.2  | Icy satellites and rings  | 1  |        |           |           | O (26)    |    |
|  |   | 2  |        |           |           |           |    |
|  |   | 3  |        |           |           | O (26)    |    |
|  |   | 4  |        |           |           | O (26)    |    |
|  |   | 5  |        |           |           | P (XL238) |    |

| Session   | Title   | TB                    | Mo                         | Tu               | We     | Th      | Fr   |
|---|---|-----------------------|----------------------------|------------------|--------|---------|--|
| <b>PS4 – Small bodies and dust</b>                          |   |                       |                            |                  |        |         |  |
| PS4.0   | Small bodies and Dust   | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | P (XL183)<br>P (XL192)<br>O (13)           |
| <b>PS5 – Plasmas and magnetospheres</b>                     |   |                       |                            |                  |        |         |  |
| PS5.0/ST7.1   | Planetary Plasma Physics  | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | P (XL199)<br>O (26)<br>O (26)<br>P (XL210) |
| PS5.2   | Moon-Magnetosphere Interconnections   | 1<br>2<br>3<br>4<br>5 |                            |                  |        | O (28)  |  |
| PS5.4   | Outer planet magnetotails   | 1<br>2<br>3<br>4<br>5 | O (25)                     |                  |        |         |  |
| PS5.5/ST7.4   | Electrodynamics of induced magnetospheres   | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | O (22)<br>P (XL222)                        |
| PS5.6/ST7.3   | Planetary, Solar and Heliospheric Radio Emissions                                       | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | P (XL237)<br>O (26)                        |
| <b>PS6 – Exoplanets</b>                                     |   |                       |                            |                  |        |         |  |
| PS6.0   | Exoplanets: observation, characterisation and habitability                              | 1<br>2<br>3<br>4<br>5 | O (22)<br>O (22)<br>O (26) |                  |        |         |  |
| PS6.2   | Origin, formation, dynamics and natural processes of Solar system bodies                | 1<br>2<br>3<br>4<br>5 |                            | O (26)<br>O (26) |        |         | P (Z271)                                   |
| <b>PS7 – Modelling and experimental work in Planetology</b> |   |                       |                            |                  |        |         |  |
| PS7.0/GD1.10  | Experiments, Simulations and Numerical modeling in planetology                          | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | O (22)<br>P (XL249)<br>P (XL258)           |
| PS7.1   | Spectroscopy and radiative transfer in Planetary atmospheres                            | 1<br>2<br>3<br>4<br>5 |                            | O (2)            |        |         |  |
| <b>PS8 – Origins and Astrobiology</b>                       |   |                       |                            |                  |        |         |  |
| PS8.0/BG8.2   | Habitability in the Solar System: Mars, early Earth, and the outer Solar System         | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         | P (XL267)<br>P (XL276)<br>O (22)           |
| <b>PS9 – Joint Sessions</b>                                 |   |                       |                            |                  |        |         |  |
| PS9.0/GMPV42/TS3.3  | Volcanism, Tectonics and Faulting in the Solar System                                   | 1<br>2<br>3<br>4<br>5 |                            |                  |        |         |  |
| GD6.6/GMPV53/<br>MPRG20/PS9.2/SM6.12                        | The deep mantle, plumes, and chemical heterogeneity: structure, dynamics, and evolution | 1<br>2<br>3<br>4<br>5 | O (26)<br>P (XL259)        |                  | O (31) | P (A30) |  |

| Session                       | Title  | TB | Mo        | Tu       | We        | Th     | Fr |
|-------------------------------|--|----|-----------|----------|-----------|--------|----|
| MPRG17/GD7.2/<br>GMPV34/PS9.3 | Diversity in planetary magnetism<br>and dynamos  | 1  |           |          |           |        |    |
|                               |  | 2  |           |          |           |        |    |
|                               |  | 3  |           | O (42)   |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  |           | P (A404) |           |        |    |
| GD7.1/MPRG19/PS9.4/<br>SM6.13 | Constraints on Earth's core<br>dynamics from observation,<br>experiments and numerical<br>modeling                       | 1  |           |          |           |        |    |
|                               |  | 2  |           | O (31)   |           |        |    |
|                               |  | 3  |           |          |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  |           | P (A98)  |           |        |    |
| ST4.1/PS9.6                   | Theory and simulations of solar<br>system plasmas  | 1  |           |          |           | O (26) |    |
|                               |  | 2  |           |          |           | O (26) |    |
|                               |  | 3  |           |          |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  |           |          | P (XL335) |        |    |
| CL2.20/PS1                    | Solar and Geomagnetic Activity and<br>Their Influences on the Earth's<br>Weather and Climate                             | 1  |           |          | O (16)    |        |    |
|                               |  | 2  |           |          |           |        |    |
|                               |  | 3  |           |          |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  |           | P (Z69)  |           |        |    |
| ST2.3                         | Dynamic Processes in Planetary<br>Inner Magnetospheres: Radiation<br>Belts, Ring Current, Plasmasphere<br>and Ionosphere | 1  | O (13)    |          |           |        |    |
|                               |  | 2  | O (13)    |          |           |        |    |
|                               |  | 3  |           |          |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  | P (XL370) |          |           |        |    |
| GM1.3                         | Planetary Geomorphology  | 1  |           |          |           |        |    |
|                               |  | 2  |           |          |           |        |    |
|                               |  | 3  |           |          |           |        |    |
|                               |  | 4  |           |          |           |        |    |
|                               |  | 5  |           | P (XL1)  |           |        |    |