

INTERNATIONAL SPACE SCIENCE INSTITUTE

MERCURY WORKSHOP 26-30 JUNE 2006

MONDAY 26 JUNE SESSION 1

Time	Speaker	Title
09:00 - 09:15		Arrival, registration
09:15 - 09:30		Welcome, introduction
09:30 - 10:15	Willy Benz	The terrestrial planets and Mercury: the first 100 million years
10:15 - 11:00	Sean Solomon	The terrestrial planets and Mercury: Internal and geological evolution
11:00 - 11:20		Coffee break
11:20 - 11:50	Véronique Déhant	Rotation, libration and gravitational field
11:50 - 12:20	Tim Van Hoolst	Tidal effects and internal modelling
12:20 - 12:50	Frank Sohl	Interior structure and bulk composition
12:50 - 14:00		Lunch

MONDAY 26 JUNE SESSION 2

14:00 - 14:30	Doris Breuer	The thermo-chemical evolution of Mercury
14:30 - 15:00	Igor Holin	Optimized Radar Estimation of Mercury Spin Dynamics
15:00 - 15:40	Mioara Manda	The Hermean magnetic field: lessons from the Earth to understand Mercury's interior
15:40 - 16:00		Coffee break
16:00 - 16:30	Johannes Wicht	Modelling Mercury's dynamo
16:30 - 17:00	Futoshi Takahashi	"Dipolar and non-dipolar dynamos in a thin shell geometry with implications for the magnetic field of Mercury"
17:00 - 17:30	Igor Veselovsky	Possible crustal magnetic field of Mercury estimated from Mariner 10 data
17:30		Welcome drink

TUESDAY, 27 JUNE SESSION 1

09:00 - 09:40	John Harmon	Radar imaging of Mercury
09:40 - 10:10	Leonid Ksanfomality	Mercury's surface by ground-based observations in the near IR
10:10 - 10:40	Nick Thomas	Structure of regolith based on the characteristics of scattered light
10:40 - 11:00		Coffee break
11:00 - 11:30	Johann Warrel	Spectral reflectivity of the regolith in the visible and in the near IR
11:30 - 12:00	Ann Sprague	Thermal spectra of Mercury: surface/regolith
12:00 - 12:30	Gabriele Cremonese	Analysis of impact craters on Mercury
12:30 - 13:00	Jörn Helbert	Taking Mercury's surface in the lab - Which measurements do we need to make sense of the remote sensing data?
13:00 - 14:15		Lunch
14:15 - 15:40		Splinters
15:40 - 16:00		Coffee break

TUESDAY, 27 JUNE SESSION 2

16:00 – 16:30	André Balogh	The achievements of Mariner 10 and mission plans over the past 30 years
16:30 – 17:00	Sean Solomon	MESSENGER: a status report
17:00 – 17:30	Yves Langevin	Mission design: cruise to and orbit insertion options around Mercury
17:30 – 18:00	Rita Schulz	BepiColombo: a status report

WEDNESDAY, 28 JUNE SESSION 1

09:00 – 09:40	Rosemary Killen	Processes that promote and deplete the exosphere
09:40 – 10:20	Helmut Lammer	Particle release from Mercury's surface and exospheric response during CME events
10:20 – 10:50	Stefano Orsini	Evolution of the Hermean exosphere: in/out balance and related mechanisms
10:50 – 11:10		Coffee break
11:10 – 11:40	Peter Wurz	Changes of the surface composition as a result of sputtering
11:40 – 12:10	Ann Sprague	Surface chemistry and its relationship with the exosphere
12:10 – 12:40	Gabriele Cremonese	Meteoroid impacts on Mercury
12:40 – 14:00		Lunch
14:00 – 18:00		Excursion

THURSDAY, 29 JUNE SESSION 1

09:00 – 09:40	Wolfgang Baumjohann	Overview of Mercury's dynamic magnetosphere
09:40 – 10:10	Lars Blomberg	Fields and Waves in Mercury's Magnetosphere
10:10 – 10:40	Masaki Fujimoto	Mercury's magnetosphere in the context of the Plasma Universe
10:40 – 11:00		Coffee break

THURSDAY, 29 JUNE SESSION 2

11:00 – 11:40	Karl-Heinz Glassmeier	Induced magnetic fields and possible implications for the Hermean magnetosphere
11:40 – 12:20	Rumi Nakamura	Substorms, reconnection, tail
12:20 – 12:50	Yoshifumi Saito	Magnetospheric structure – role of slow shocks
12:50 – 14:00		Lunch
14:00 – 14:30	Jim Slavin	Magnetosphere - Atmosphere - Regolith Coupling at Mercury
14:30 – 15:00	Alexandre Skalsky.	Magnetospheric – surface coupling at Mercury
15:00 – 15:30	Lev Zeleny	Acceleration and energization of particles in the Hermean magnetosphere

15:30 – 15:50		Coffee break
15:50 – 18:00		Splinters
19:30		Workshop dinner

FRIDAY, 30 JUNE SESSION 1

09:00 – 10:30		Splinters
10:30 – 11:00		Coffee break
11:00 – 12:30		Splinter reports, book contents, structure, schedule, actions
12:30		Conclusions, end of the Workshop