

**First Circular – Workshop of the International Space Science Institute (ISSI)
20 January 2006**

Mercury

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Date: 26-30 June 2006

Objective: The objective of the Workshop is to review key aspects of our understanding of Mercury the planet, its environment and its place among the terrestrial planets.

Structure and programme outline: Five themes to be covered during the Workshop have been identified. These are:

1. The terrestrial planets and Mercury. Reviews of the formation and evolution of the terrestrial planets, their specificities. The place of Mercury among the terrestrial planets.
2. The interior of Mercury: current status, thermal evolution, models of the origin of the planetary magnetic field.
3. Mercury's surface: reviews of topography (Mariner 10 images and ground-based observations), radar imaging results, surface temperature effects, physical properties. Geologic history and age estimation.
4. Mercury's exosphere: review of known properties, composition, structure, temporal variability; origin and role as interface between surface and magnetosphere/solar wind; open questions.
5. Mercury's dynamic magnetosphere: review of the factors and phenomena that contribute to the essential variability of the magnetosphere; timescales; modelling methodology.

The outline topics in the five themes are given for guidance only, to indicate that the aim of the Workshop is to identify those questions that are most pressing and relevant, and to supply answers or outline answers or simply describe the future methodology that will bring answers to these questions.

The Workshop will cover these themes through plenary talks, both invited and contributed, and through two half days of splinter sessions. The talks will cover all five topics, and participants will form four groups (themes 1+2, 3, 4 and 5) for the splinter sessions. An outline timetable for the talks (assuming an average of 30 minutes per talk including discussion) is given below.

day and date	am/pm	programme	subject
Monday 26 June	am	Introductory talks (~4)	Talks on all 5 themes of the Workshop (invited/contributed)
	pm	Introductory talks (~6)	
Tuesday 27 June	am	Introductory talks (~6)	
	pm	Splinter groups	
Wednesday 28 June	am	Talks (~6 – 10)	Contributed (by theme)
	pm	Free time (excursion?)	
Thursday 29 June	am	Talks (~6 – 10)	Contributed (by theme)
	pm	Splinter groups	
Friday 30 June	am	Reports, book contents, structure, schedule, actions	
	pm	End of Workshop	

Product: Following the Workshop, its output will be published as a volume in the Space Science Series of ISSI by Springer, in parallel with publication of the papers in Space Science Reviews. It is expected that a total of about 15 review style and quality papers, submitted to the usual refereeing process will be published in the book. Papers will be based on the introductory and contributed talks, and will be moderated by the discussions in the splinter groups.

Attendance: by invitation only, ~45 participants maximum.

Funding: ISSI will provide the subsistence costs (hotel and meals) to all participants, but not the travel costs.

Schedule:

Invitations and First Circular:	20 January 2006
Registration deadline:	15 March 2006
Second Circular:	31 March 2006
Third, Final Circular:	1 June 2006

List of invited participants:

(In the following, a preliminary grouping of invited participants is shown. Please note that it is recognized that there are significant overlap in interest by participants is expected between Themes 1 and 2, Themes 2 and 5, Themes 3 and 4; generally, we expect the many participants will wish to contribute to more than one theme.)

List of Participants, ISSI Workshop on Mercury, 26-30 June 2006

1. Terrestrial Planets - Context for Mercury

Willy Benz	willy.benz@phim.unibe.ch	Physikalisches Institut, University of Bern, Switzerland
Sean Solomon	solomon@dtm.ciw.edu	Dept. of Terrestrial Magnetism, Carnegie Institution of Washington, USA
Christophe Sotin	Christophe.Sotin@univ-nantes.fr	Universite de Nantes, France
Tilman Spohn	tilman.spohn@dlr.de	Institut für Planetenforschung, DLR, Germany

2. Internal evolution, structure, magnetic field

André Balogh	balogh@issi.unibe.ch	ISSI, Bern, Switzerland
Doris Breuer	Doris.breuer@dlr.de	Institut für Planetenforschung, DLR, Germany
Giacomo Giampieri	giacomo.giampieri@jpl.nasa.gov	Jet Propulsion Laboratory, USA
S. Kato	kato@planeta.sci.isas.jaxa.jp	JAXA/ISAS, Japan
S. Matsushima	mmatsush@geo.titech.ac.jp	Tokyo Institute of Technology, Japan
Rita Schulz	rita.schulz@esa.int	ESTEC, ESA, The Netherlands
Frank Sohl	frank.sohl@dlr.de	Institut für Planetenforschung, DLR, Germany
Igor Veselovsky	veselov@dec1.sinp.msu.ru	IKI, Russia

3. Surface

Kate Fishbaugh	fishbaugh@issi.unibe.ch	ISSI, Bern, Switzerland
John Harmon	jharmon@naic.edu	Arecibo Observatory, NAIC, USA
Jörn Helbert	Joern.Helbert@dlr.de	Institut für Planetenforschung, DLR, Germany
Leonid Ksanfomality	ksanf@iki.rssi.ru	IKI, Russia
Yves Langevin	yves.langevin@ias.u-psud.fr	Institut d'Astrophysique Spatiale, Université de Paris 6, France
Jean-Luc Margot	jlm@astro.cornell.edu	Department of Astronomy, Cornell University, USA
Nick Thomas	nicolas.thomas@phim.unibe.ch	Physikalisches Institut, University of Bern, Switzerland
Johan Warell	Johan.Warell@astro.uu.se	University of Uppsala, Sweden

4. Exosphere

Eric Chassefière	eric.chassefiere@aero.jussieu.fr	Service d'Aeronomie, Jussieu, France
Gabriele Cremonese	cremonese@pd.astro.it	Osservatorio Astronomico, Padova, Italy
Rosemary Killen	rkillen@astro.umd.edu	University of Maryland, USA
Helmut Lammer	helmut.lammer@oeaw.ac.at	Space Research Institute, Austrian Academy of Sciences, Austria

Stefano Orsini	stefano.orsini@ifsi.rm.cnr.it	IFSI, CNR, Italy
Andrew Potter	dspotter@dakotacom.net	NOAO, Tucson, USA
Ann Sprague	sprague@lpl.arizona.edu	Lunar and Planetary Laboratory, University of Arizona, USA
Peter Wurz	peter.wurz@soho.unibe.ch	Physikalisches Institut, University of Bern, Switzerland

5. Magnetosphere

Wolfgang Baumjohann	Wolfgang.Baumjohann@oeaw.ac.at	Space Research Institute, Austrian Academy of Sciences, Austria
Lars Blomberg	Lars.Blomberg@alfvenlab.kth.se	Alfven Laboratory, Royal Institute of Technology, Sweden
Masaki Fujimoto	fujimoto@geo.titech.ac.jp	Tokyo Institute of Technology, Japan
Karl-Heinz Glassmeier	kh.glassmeier@tu-bs.de	IGEP, TU Braunschweig, Germany
Rumi Nakamura	rumi.nakamura@oeaw.ac.at	Space Research Institute, Austrian Academy of Sciences, Austria
Yoshifumi Saito	saito@stp.isas.ac.jp	JAXA/ISAS, Japan
A. Skalsky	askalsky@iki.rssi.ru	IKI, Russia
Jim Slavin	James.A.Slavin@nasa.gov	NASA/GSFC, USA
Lev Zeleny	lzelenyi@iki.rssi.ru	IKI, Russia

6. Additional participants

Roger M. Bonnet	rmbonnet@issi.unibe.ch	ISSI, Bern, Switzerland
Ulrich Christensen	christensen@mps.mpg.de	Max-Planck Institut für Sonnensystemforschung, Germany
Toshifumi Mukai	mukai@stp.isas.ac.jp	JAXA/ISAS, Japan
Rudolf von Steiger	vsteiger@issi.unibe.ch	ISSI, Bern, Switzerland

Registration – Workshop of the International Space Science Institute (ISSI)

Mercury

Bern, Switzerland, 26-30 June 2006

I accept the invitation to this workshop and plan to attend.

Last Name:.....

First Name:.....

Affiliation:.....

Address:.....

City:.....

Country:.....

Tel:.....

Fax:.....

Email:.....

Comments:

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Switzerland
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Deadline for Registration: 15 March 2006