

# BepiColombo Science Working Team Meeting #5 & International Mercury Science Workshop

[Supported by - JAXA/BepiColombo Project  
- Tohoku Univ. / Global COE Program [Global Education and Research Center for Earth and Planetary Dynamics](#)

at

**War Reconstruction Memorial Hall, Sendai, Japan**

Agenda (Final version Sep 1)

## Tuesday, 16 September 2008

**<AM : Project Overviews>**

**~ closed to the Project members ~**

**0900 Welcome and introduction**

**M. Fujimoto / J. Benkhoff**

**0910 Meeting with MESSENGER Team at COSPAR**

J. Benkhoff

**0920 BepiColombo Project Status Overview**

J. van Casteren

**1000 MMO Status Overview**

H. Hayakawa & MMO System

**1030 MPO Status Overview**

J. van Casteren & BC System

**1100 Discussion**

**<<1200 Launch Break>>**

**<PM : International Mercury Science Symposium 2008>**

**~ opened to any young scientists ~**

**Hosted by JAXA/BepiColombo Project, JAXA  
The Global COE program, Tohoku University**

## **1330 Kaguya talks**

Yoshifumi Saito

Highlights of SELENE(Kaguya) Science Results –  
Space Plasma Environments

M. Kato

Highlights of SELENE(Kaguya) Science Results –  
Surface and Interior

## **1500 Messenger talks**

Dave Smith

Mercury Gravity Field Observations During MESSENGER  
Flyby of Jan 2008

Jim Slavin

Mercury's Magnetosphere after MESSENGER's  
First Flyby

**<<1630 Coffee Break>>**

## 1700 MPO related talks

- |                    |  |
|--------------------|--|
| Johan Warell       | Surface composition of Mercury from MESSENGER and groundbased spectroscopy |
| Gabriele Cremonese | Flux of meteoroids on Mercury  |

<<1830      Adjourn>>

## Wednesday 17 September 2008

### <AM : International Mercury Science Symposium 2008>

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Hosted by **JAXA/BepiColombo Project, JAXA**  
**The Global COE program, Tohoku University**

### 0900    Science Instrument Tutorials #1 MPO-MAG, MMO-MGF

MPO-MAG  
MMO-MGF

PI: K. Glassmeier  
PI: W. Baumjohann

- |                   |  |
|-------------------|--|
| Uli Auster        | Fluxgate magnetometer principle, 30 min                              |
| Werner Magnes     | Fluxgate magnetometer electronics, 20 min                            |
| Kai Okrafka       | Thermal challenges, 15 min   |
| Ayako Matsuoka    | What can be measured with 2 magnetometers around Mercury, 30 min     |
| Yasuhito Narita   | Hermean magnetosphere and its feedback with Mercury's dynamo, 20 min |
| Masaki Matsushima | Mercury magnetism and core dynamics, 20 min                          |
| Daniel Heyner     | Data analysis for internal field determination, 15 min               |

<<1130      Coffee Break>>

### 1200    Big Update Issues from Other Instrument Teams *[key notice only]*

- |                 |   |
|-----------------|---|
| Yoshi Saito     | MMO MPPE&SERENA, 5 min                                  |
| Alessandro Mura | New results from a Hermean environment modeling, 20 min |
| Yasu Kasaba     | MMO PWI 5min  |
| Yasu Kasaba     | MMO MDP 5min  |
| Joern Helbert   | High temperature spectral measurements, 20min           |

<<1330      Launch Break>>

### <PM : Excursion to Matsushima Area>

1500–2000    Bus Tour & Party

**Thursday, 18 September 2007**

**<AM: Splinter Sessions>**

**0900 Working Groups Splinter (two sessions, two parallel each)**

**\* Geodesy and Geodynamic**

**T. Spohn, L. Iess**

**\* Atmosphere and Magnetosphere/HEWG**

**A. Milillo, M. Fujimoto**

**- Science talks**

Leblanc F., A. Doressoundiram, N. Schneider , V. Mangano , A. Lopez-Ariste ,  
C. Lemen, B. Gelly, C. Barbieri and G. Cremonese

High latitude peaks in Mercury's sodium exosphere: Spectral signature using  
THEMIS Solar Telescope

Pavel Travnicek

Recent modeling efforts triggered by M1 flyby

**- MPPE-SERENA coordination (Science topics)**

**- MMO operation planning**

**\* Surface and composition**

**D. Rothery, Lucia Marin**

**\* Ground based observations**

**G. Cremonese**

Shoichi Okano (Tohoku Univ.)

International Mercury Watch (IMW): Preliminary results of the campaign  
observations

**1200 Any other business**

**Interdisciplinary Scientists**

**Meetings to be scheduled (next SWT)**

**PSS special issue**

**<<1230          Adjourn>>**

**After Lunch      MPPE-SERENA Meeting**

**<Current other proposed talks : Planned in the 2<sup>nd</sup> or 3<sup>rd</sup> day>**