

SMILE Kick-off meeting, MSSL Common Room, 3 – 4 Sept. 2015

Programme

Thursday 3 Sept. 2015

09:00 – Registration and coffee

- 01 - 09:15 **Graziella Branduardi-Raymont** – Welcome and introduction to SMILE
- 02 - 09:40 **Philippe Escoubet / Jens Romstedt** – Status and plans at ESA
- 03 - 10:10 **Chi Wang** – Recent SMILE activities in China

A) SMILE science

- 04/05 - 10:20 **Jonathan Eastwood / David Sibeck** – SMILE science objectives and requirements

11:00 – Coffee break (and Registration)

- 06 - 11:30 **Brian Walsh** – Solar wind plasma entry in the cusps

B) SMILE orbit and mission issues

- 07 - 11:45 **Andy Read** – Orbit, viewing and related issues
- 08 - 12:25 **Jingye YAN** – Interface definition of SMILE
- 09 - 12:35 **Jianhua Zheng** – SMILE mission analysis and requirements for satellite

12:50 – Lunch

13:45 – SMILE Kick-off meeting group photo

C) SMILE payload

- 10 - 14:00 **Steve Sembay** – SXI (Soft X-ray Imager) instrument overview & Ottensamer
- 11 - 14:30 **Andrew Holland** – SXI CCD and radiation damage issues
- 12 - 14:45 **Eric Donovan** – SMILE UV Imager (UVI)
- 13 - 15:15 **Lei Dai** – The Light Ion Analyser (LIA) for SMILE
- 14 - 15:25 **Dhiren Kataria** – LIA instrument overview

15:45 – Coffee and tea

- 15 - 16:15 **Aibing Zhang** – Thermal plasma, UV and X-ray exploration
- 16 - 16:30 **Lei Li** – The fluxgate magnetometer for SMILE

D) Simulations and modelling

- 17 - 16:45 **Chi Wang** – X-ray imaging of the magnetosphere: simulation support for SMILE

- 18 - **17:00 Eric Donovan** – UV auroral modelling
- 19 - **17:20 Scott Porter** – Laboratory measurements of Charge Exchange: relation to SMILE (TBC by Skype)

17:35 – Close for the day

19:00 for 19:30 sit down – SMILE dinner at the Hurtwood Inn

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09:00 Coffee

D) Simulations and modelling (cont.)

- 20 - **9:15 Ian Whittaker** – Comparing predicted SWCX emissivity models with observations by XMM-Newton
- 21 - **9:30 Kip Kuntz** – SWCX soft X-ray emissivity simulations
- 22 - **9:45 Michael Collier** – What can we learn from DXL/STORM and DXL2/CuPID?

E) Ground measurements

- 23/24 - **10:00 David Sibeck (for Mark Engebretson)** – Ground magnetometer measurements
- 25 - **10:15 Kjellmar Oksavik** – Observations of the dayside cusp aurora using ground-based optics and radar

10:30 – Coffee break

F) Open discussion

10:50 Graziella & Chi to initiate, to include:

- Work assignments for initial study, schedule, deadlines
- Ground segment (stations, mission operations, data centres, etc.)
- Data policy
- Outreach
- Composition of Science Study Team
- Formation of the SMILE Consortium
- Next Consortium meeting, where and when
- AOB

13:00 – Lunch

14:00 Discussion (cont.) and **splinter meetings**, as necessary

15:30 Graziella & Chi – Concluding remarks and end of meeting

15:45 – Coffee and tea