

SMILE SST #13 and Consortium meeting #7
Vienna International Hotel
12-16 May 2019

Agenda

Sunday, 12 May 2019: SMILE modelling working group meeting

Meeting place: the Second Floor, Mozart Hall(莫扎特厅)

Monday, 13 May 2019

Start 08:30

Science Study Team meeting (open to all Consortium meeting participants)

Meeting place: the Second Floor, Beethoven Hall(贝多芬厅)

Morning #1 (8:30am) [Chair: WANG Chi] Presentations 12mins + 3 questions /discussions

1. Welcome – WANG Chi /WANG Cheng (Secretary General, China Space Foundation)
2. Welcome-Graziella Branduardi-Raymont/Philippe Escoubet
3. SST -> Science Working Team - Philippe Escoubet
4. Minutes and action items from last SST – Philippe Escoubet
5. ESA project status – David Agnolon
6. Payload module design overview – Chris Runciman
7. CAS project status – LI Jing
8. Spacecraft design overview and status – CHEN Wen/ZHU Xiaocheng
9. Payload status, ESA side – Walfried Raab

Group Photo: first floor (ground floor) at the main entrance of the hotel

Morning Break (11:00 – 11:15am)

Morning #2 (11:15am) [Chair: Walfried Raab]

10. Payload status from PIs
 - LIA – Ling-Gao KONG/Lei DAI/Dihiren Kataria/Matthieu Berthomier
 - MAG – Lei LI/Jin-Dong WANG
 - SXI – Steve Sembay
 - UVI–Marko Marko Adamovic, Oleg Djazovski, WANG Yongmei, WANG Tianfang, Jérôme Loicq

Lunch (12:15- 1:15pm): 1st floor

Afternoon #1 (1:30-4:00pm) [Chair: Graziella Branduardi-Raymont]

11. Science requirements – Philippe Escoubet
12. ESA advisory structure feedback on redbook – Philippe Escoubet
13. Orbit analysis: 70° AoP 282 vs 287.5 – ZHU Xiaocheng
14. Orbit files delivery: stop GSE format ? – ZHU Xiaocheng
15. Orbits (70° AoP 282 vs 287.5), views, efficiencies – Andy Read(Webex 15:30-16:00)

Adjourn 16:00, SWT executive session 16:00-17:30

Tuesday, 14 May 2019 [Talks to be 15 min long, including questions]

Start 08:30

Morning #1 (8:30am) ---- [Chair: Jenny Carter]

16. UVI end-to-end simulator and operations centre development status by UofC- Eric Donovan
17. Chinese Ground Support System – MA Fuli
18. Chinese ground segment: Science Application System – DAI Lei
19. ESA science operations - Harri Laakso
20. Ground-Based and Additional Science Working Group report– Jenny Carter
21. In-situ Working Group report - DAI Lei

Morning Break (10:00 – 10:15am)

Morning #2 (10:15—11:30am) ---- [Chair: Philippe Escoubet]

22. Outreach Working Group report - Graziella Branduardi-Raymont
23. Data format working group – Harri Laakso
24. Modeling working group -SUN Tianran / Hyunju Connor
25. SMILE data rights and rules, and authorship of papers/presentations – Philippe Escoubet
26. AOB
 - SMILE community directory – Philippe Escoubet
 - DONM

End 11:30 on 14 Tuesday May

Lunch (11:30- 12:30pm):

Afternoon #1 (12:30-2:45pm)---Focus on magnetosphere [Chair:SUN Tianran]

27. Cluster-MMS-THEMIS conjunctions in the magnetosheath and plasmashet and preparation for SMILE -Philippe Escoubet
28. The statistical estimation of X-ray emissivity in the cusp and equatorial magnetosheath as a function of solar wind flux –Andrew Peter Dimmock
29. Magnetosheath parameters along SMILE trajectory from MHD simulations--Andrey Samsonov
30. Magnetopause Crossings and also SWARM results- Malcolm Dunlop
31. Some Properties of Charged Particles in the Cusp Region-SHI Jiankui
32. On the Use of Magnetopause Models when Estimating Radiation Belt Electron Loss-Frances Staples
33. Solar wind modulation of flux transfer events- Iain Jonathan Rae
34. Remote sensing of the substorm onset instability- Iain Jonathan Rae
35. Examining Local Time Variations in the Gains and Losses of Open Magnetic Flux During Substorms.--Michaela Mooney

Break (2:45- 3:00pm):

Afternoon #2 (3:00-5.00pm)---Ionosphere and Ground Based [Chair: DAI Lei]

36. Invited Presentation: New opportunities for high-latitude ionosphere dynamics research in the era of SMILE-Zou Shasha
37. Large-scale polar cap aurora and their linkage with SMILE mission—ZHANG Qinghe
38. Geoelectromagnetics Characterizing Ground Response in Eastern North America –Martin Connors
39. Solar Storm and the Variation of Space Electric Field near the Earth Surface—CHEN Tao
40. Magnetospheric Multiscale Observations of ULF Waves and Correlated Low - Energy Ion Monoenergetic Acceleration–LI Bin

- 41. Relation between magnetic reconnection and cross polar cap potential during sudden enhancement of solar wind pressure- - Hyunju Connor
- 42. A Global Time-Dependent Model of Magnetosphere-Ionosphere Coupling with Solar Wind Driving- Robert Rankin
- 43. U.S. Participating Investigator Team Report and Plan- Syau-Yun Hsieh

Splinter meeting(14 Tuesday May 13:00-15:30)

- Interface and actions discussion with CCC-Christopher Runciman
Meeting place: the Second Floor, Mozart Hall(莫扎特厅)

Wednesday 15 May: Consortium meeting

Splinter meeting:

- co-engineer meeting PF-PLM-Christopher Runciman (9:00-12:00)
Meeting place: the Sixth Floor, B Conference Room (B 会议室)
- PA meeting, IAMC, ESA, CSA, NSSC-Massimo Falcolini (9:00-12:00)
Meeting place: the Second Floor, Mozart Hall(莫扎特厅)
- pre-PDR meeting for the UVI- Marko Adamovic (13:00-17:00)
Meeting place: the Second Floor, Mozart Hall(莫扎特厅)
- any others

Thursday 16 May: ESAC/CSSDC meeting on SMILE data archiving (9:00-12:00)

Meeting place: the Second Floor, Mozart Hall(莫扎特厅)

Meeting WebEx Information

Day 1 (13th May):

Webex: https://smile-ch.webex.com.cn/mw3200/mywebex/default.do?service=1&siteurl=smile-ch-en&nomenu=true&main_url=%2Fmc3200%2Fe.do%3Fsiteurl%3Dsmile-ch-en%26AT%3DMI%26EventID%3D38196657%26UID%3D1005310317%26Host%3DQUhTSwAAAAJUFPa91-JiymKkYel-oyQqLUAinK8RJibtDR7CAKqCmkD8WJAILfRSzHtZQxqPpnCqJDH_GHRfjDahCeDToc1r0%26FrameSet%3D2%26MTID%3Dm4765debfaa71d517049aaded8f23659d

Meeting number (access code): 186 549 672

Meeting password: SMILE1234!

SMILE Modelling Working Group
May. 12, 2019, in Xi'an
Meeting Agenda

Morning session on May. 12 (9:00-13:00)

Topic: MHD/hybrid/Vlasov simulations of X-ray emissions

Chair: Tianran Sun

9:00 – 09:10 Brief overview about the Modelling Working Group – Tianran Sun

09:10 – 09:40 Comparison of MWG simulations for artificial and real events – Andrey Samsonov

09:40 – 10:10 Reconnection outside the box: magnetopause structure from exhaust observations – Jef Broll
(webex)

10:10 – 10:40 Tracing the magnetopause location from the soft X-ray observations: tangential direction approach – Hyunju Connor

10:40 – 11:00 coffee break

Chair: Andrey Samsonov

11:00 – 11:30 Boundary detection in three dimensions with application to the SMILE mission – Anders Jorgensen

11:30 – 12:00 Deriving the magnetopause position from an X-ray image – Tianran Sun

12:00 – 12:30 First results on X-ray emissivity in the magnetosheath with the Vlasov global hybrid-Vlasov model – Maxime Grandin **(webex)**

12:30 – 13:00 Hybrid simulations of the solar wind charge exchange X-ray emission in the near-Earth environment – Dimitra Koutroumpa **(webex)**

13:00 – 14:00 Lunch

Afternoon session on May. 12 (14:00-17:30)

Topic: X-ray photon counts and satellite observations

Chair: Hyunju Connor

14:00 – 14:30 SXI_SIM: A simulator for the SMILE SXI instrument – Steve Sembay

14:30-15:00 From Int N_p N_n V to Counts; Current and Future – Kip Kuntz

15:00 – 15:30 Applications of Charge-Exchange in Astrophysics – Li Ji

15:30 – 16:00 coffee break + picture

Chair: Steve Sembay

16:00 – 16:30 Relation or non-relation between solar wind protons and highly ionized ions –Phillippe Escoubet

16:30 – 17:00 X-ray emission, and magnetopause & cusp structures, as observed using SMILE orbits – Andy Read **(webex)**

17:00 – 17:30 The statistical properties of the dayside magnetosheath for the SMILE modelling challenge conditions – Andrew Dimmock