

MMS SCIENCE WORKING TEAM MEETING AGENDA

01-04 Oct 2017, Regency Hotel, 20 Milk St., Portland ME 04101

Sunday, 01 Oct. PM, Rms. TBD

Part 1A: Team Splinters **Chairs:** Team Leads

13:00 **Rm TBD:** Fields Team Meeting

13:00 **Rm TBD:** EPD Team Meeting

13:00 **Rm TBD:** HPCA Team Meeting

13:00 **Rm TBD:** FPI Team Meeting

13:00 **Rm TBD:** SITL/Burst Team

13:00 **Rm TBD:** MAG Team

13:00 **Rm TBD:** TMDA Team Meeting

ASPOC meets with other teams as desired and appropriate

Sunday, 01 Oct PM Rm. TBD

Part 2: Science Working Group **Chairs:** Jim Burch / Thom Moore

16:00 Begin SWG Meeting (Limited to SWG membership) Rm. TBD

18:00 Adjourn

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Monday, 02 Oct. AM, Rm. TBD

Part 1B: Team Splinters **Chairs:** Team Leads

08:30 **Rm TBD:** Fields Team Meeting

08:30 **Rm TBD:** EPD Team Meeting

08:30 **Rm TBD:** HPCA Team Meeting

ASPOC meets with other teams as desired and appropriate

12:00 Lunch, Poster Session TBD

Monday, 02 Oct PM: Rm. TBD

Part 3A: Operations Status **Chair:** Thom Moore/Jim Burch

13:00 Moore: Welcome and Meeting Agenda Overview

13:15 Kessel: HQ Perspective and Senior Review

13:30 Burch: Project Update / SWG Report

13:45 Lounsbury: Mission Operations

14:00 Smith: Science Instrument Operations Plan

15:00 Coffee Break

15:30 Pankratz: MMS Data Management

15:45 Larsen: SDC Operations and Outlook

16:15 Garrison: E/PO Update and Future Opportunities

16:30 TBD: New EDR events from Phase 2

16:45 Hesse: EDR balance for symmetric reconnection

Monday, 02 Oct EVE TBD

Casco Bay Cruise?

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Tuesday, 02 Oct AM, Rm. TBD

Part 3: Science Presentations Chair: TBD

08:30 Burch: Presentation to Senior Review Panel

09:00 Nakamura R: Thin current sheets during substorm dipolarization

09:15 Nakamura T: K-H reconnection in observations and simulations

09:30 Fuselier: Reconnection and magnetospheric ions

09:45 Trattner - Anti-parallel versus component dayside reconnection

10:00 Coffee Break

10:15 Petrinec: Reconnection along the dawn and dusk magnetopause

10:30 Mouikis: Substorm impacts on plasma sheet composition

10:45 Broll: Ion exhaust distributions global MHD test particles

11:00 Pritchard: Ohm's law in a reconnection electron diffusion region

11:15 Gomez: Pickup ions upstream of the Earth's bow shock

11:30 Birn: Acceleration of oxygen ions in tail reconnection

12:00 Lunch, Poster Session TBD

Tuesday, 02 Oct PM, Rm. TBD

Part 4: Data Analysis Sessions Chair: TBD

13:00 Magnetotail Reconnection Events

Discussion Leads: Roy Torbert, Rumi Nakamura

15:00 Break

15:30 Phase 3B (Upstream Region) Science Objectives

Discussion Leads: Mel Goldstein, Steve Schwartz

Tuesday, 03 Oct EVE Rm. TBD

Reception, Brewpub dinner

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Wednesday 04 Oct AM, Rm. TBD

Part 5: Science Presentations Chair: TBD

08:30 Denton: Determining LMN coordinate directions from PIC
08:45 Swisdak: EDR for asymmetric anti-parallel reconnection
09:00 Wang: Energy partition in the diffusion region of asymmetric reconnection
09:15 Bessho: Guide field and reconnection E field influence on e- VDFs
09:30 Chen: Tail EDR observed by MMS
09:45 Liu: Collisionless magnetic reconnection rate in asymmetric current sheets

10:00 Coffee Break

10:15 Avinov: Strong plasma injections from MMS
10:30 Rager: Current sheet crossings at 7.5 ms resolution
10:45 Paterson: Vorticity near Reconnection Sites
11:00 Mackler: Turbulence in magnetotail
11:15.
11:30.
11:45:

12:00 Lunch, Poster Session TBD

Wednesday, 03 Oct PM, Salon B

Part 6: Science Presentations Chair: TBD

13:00 Magnetotail Reconnection Events II
Discussion Leads: Roy Torbert, Rumi Nakamura

15:00 Break

15:30 Phase 3B (Upstream Region) Science Operations
Discussion Leads: Chris Pankratz, Patrick Smith

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AGU papers by team members from our MMS session:

Avanov: Strong plasma injections from MMS
Rager: Current sheet crossings at 7.5 ms resolution
Paterson: Vorticity near Reconnection Sites
Mackler: Turbulence in magnetotail
Sturmer: Remagnetization distance in the exhaust region
Toth: Global modeling with kinetic reconnection
Alm: Two ion-scale flux ropes
Broll: Ion exhaust distributions and global MHD
Arnold: Flows around a dipolarization Front
Smith: Cold ions in flux transfer events
Swisdak: Structure of EDR in asymmetric antiparallel case
Zhang: Hall system in the exhaust region
Argall: Wave particle interactions in the pile up region
Ergun: Plasma waves and structures
Fung: Radio emissions from reconnection at magnetopause
Russell: Solar wind effects on subsolar magnetopause properties
Zenitani: Electron dynamics near the asymmetric case X line
Wendel: Field line conservation violation in PIC and MMS data
Walker: Comparing magnetopause and magnetotail reconnection
Hesse: Role of nongyrotropy in balancing the EDR
Nakamura: Thin current sheets from MMS
Sitnov: Energy conservation at dipolarization fronts
Poh: Dissipating inertial scale flux ropes in dipolarization events
Vernisse: Reconnection in K-H structures

Silveira: Survey of FTEs in the dayside magnetopause
Rogers: IDR observations in the magnetotail
Cassak, Genestretti: Guide field effect on local energy conversion
Trattner: Antiparallel vs component reconnection on dayside
Holmes: 3D structure of EM electron phase space holes
Strangeway: FAC in the magnetotail
Stawarz: Poynting flux in magnetotail reconnection
Zhao: Evolution of FTEs
Genestretti: Energy conversion in asymmetric reconnection with guide field
Torbert: Reconnection EDRs in the magnetotail
Liang: Scaling of reconnection with guide field
Shimoda: Detecting EDRs in high resolution data
Che: Gyrotropy in magnetized plasmas
Farrugia: Reconnection during subsonic solar wind flow