

MMS SCIENCE WORKING TEAM MEETING AGENDA

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

Sunday, 01 Oct. PM Diverse Rms.

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

08:30-17 **Regency Rm.:** MAG Team

13-16 **Atlantic Rm.** (projector provided): Fields Team Meeting

13-17 **Board Rm:** EPD Team Meeting

13-17 **Longfellow Rm.:** HPCA Team Meeting

13-17 **Armory Rm.:** SITL/Burst Team

13-17 **Portland Rm.:** Theory, Modeling (& Data Analysis) Team Meeting

ASPOC meets with other teams as appropriate and desired

Sunday, 01 Oct PM Atlantic Rm. (projector provided)

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

16:00 SWG Meeting (Limited to SWG membership)

18:00 Adjourn

Sunday, 01 Oct EVE

Shipyards Brewpub Dinner (recommended)

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

Monday, 02 Oct. AM Diverse Rms.

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

Continental Breakfast Available

08:30 -- 11 **Portland Rm.** (projector provided): Fields Team Meeting

08:30 -- 11 **Board Rm.** : EPD Team Meeting

08:30 -- 11 **Longfellow Rm.:** HPCA Team Meeting
ASPOC meets with other teams as desired and appropriate

08:30 – 11: **Lobby**
Other teams meet informally for science discussions

11:00 **Portland Rm.** (projector provided): Science Splinter:
Russell: “Solar Wind and Magnetic Field Structuring of the Magnetopause”

12:00 Lunch

Monday, 02 Oct PM: Atlantic Rm.

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

16:45 Hesse: EDR balance for symmetric reconnection

16:30 SITL rep. TBD: New (symmetric?) EDR events from Phase 2

Monday, 02 Oct EVE, NLT 17:30; departure 17:45 sharp

Casco Bay Lines Sunset Cruise/\$16 (and Group Photo)

56 Commercial St, Portland, ME 04101

BYOB and Food (vending machines only on board)

Dress for 2+ hours in cool weather (19C->11C)

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Tuesday, 02 Oct AM, Atlantic Rm.

Part 3: Science Discussions **Chairs: J Shuster/I Cohen**
Continental Breakfast Available

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
11:45 Argall: Electron dynamics in asymmetric reconnection EDR

12:00 Lunch, Poster Session
TBD: Results TBA
TBD: TBA

Tuesday, 02 Oct PM, Atlantic Rm.

Part 4: Data Analysis Sessions **Chair: T Leonard**

13:00 Turner: Energetic particle acceleration in foreshock transient events
13:15 Lee: Magnetosheath pressure pulses and magnetopause/shock motion
13:30 Hasegawa: Turbulence from Kelvin-Helmholtz vortices
13:45 Chasapis: Dissipation and heating in magnetosheath turbulence

14:00 Magnetotail Reconnection Events I
Discussion Leads: Roy Torbert, Rumi Nakamura

15:15 Break

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

Tuesday, 03 Oct EVE Rm. Regency Rm.

18:00 – 20:00 Reception

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Wednesday 04 Oct AM, Atlantic Rm.

Part 5: Science Discussions **Chairs: Turner / Lee**
Continental Breakfast Available

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: Current state and long term FPI MCP preservation
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 Farrugia: Reconnection as solar wind goes sub-Alfvénic
11:30 Newman: Bipolar solitary structures: simulated and observed
11:45: Oka: Electron power law distributions in solar and space plasmas

12:00 Lunch, Poster Session
 Poh: TBD (Roy Torbert knows)
 Akhavan-Tafti: TBD (Roy Torbert knows)

Wednesday, 03 Oct PM, Salon B

Part 6: Science Discussions **Chair: Hasegawa**

13:00 Cohen; Energetic ion beaming and magnetotail dipolarization events
13:15 Leonard: Innovative anisotropy displays of MMS data sets
13:30 Shuster: Energy dependence of perpendicular currents
13:45 Shay: Turbulent reconnection

14:00 Phase 3B (Upstream Region) Science Operations Priorities
 Discussion Leads: Alex Chasapis, Li-Jen Chen

15:15 Break

15:30 Magnetotail Reconnection Events II
 Discussion Leads: Roy Torbert, Rumi Nakamura

Return Travel