

# **MMS SCIENCE WORKING TEAM MEETING AGENDA**

27 Feb – 3 Mar 2016, Marriott Hotel, Key West, FL

## **Monday, 27 Feb. AM Instrument Team Splinters**

11:00 – 13:00

SITL Team Meeting Rm. **Salon A1**

13:00 – 17:30

FPI Team Meeting, Rm. **Salon A1**

08:30 – 15:00

Fields Team Meeting, Rm. **Salon C1**

09:00 – 17:00

EPD Team Meeting, Rm. **Salon A2**

09:00 – 15:30

HPCA Team Meeting, Rm. **Salon C2, then Salon A1 with FPI @ 15:30**

ASPOC meets with other teams as appropriate

15:00 – 17:00

SOC Instrument Operations Guidelines Meeting, Rm. **Salon C1**

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### **Tuesday, 28 Feb AM: Rm. Salon B**

**Part 1: Operations Plenary 1      Chair: Tom Moore**

08:30 Moore: Welcome and Meeting Agenda Overview

08:45 Kessel: HQ Perspective

09:00 Burch: Project Update

09:15 Woodard: Mission Operations

09:45 Smith: Instrument Operations

10:15 Coffee Break

10:30 Pankratz: MMS Data Management

10:45 Larsen: SDC Operations and Outlook

11:15 Garrison: E/PO Update and Future Opportunities

11:30 Burch: The Magnetic Reconnection Process in the EDR

11:45 Webster: New EDR events from phase 1B

12:00 Lunch, Poster Session TBD

### **Tuesday, 28 Feb. PM; Rm. Salon B**

**Part 2A: Planning for Phase 2B      Chair: Mark Adrian**

13:00. Ergun: "Orbit in the Life" in Phase 2b

13:30. Phan: "How to select EDR regions in the tail"

14:00. Wilder: "Week in the Life of a SITL"

14:30. Phan/Burch/Torbert/Giles: Discussion

15:00 Break

15:15. Nakamura: PSBL in Phase 1X BBF Campaign

15:30. Birn: Ion acceleration in dipolarizations fronts

15:45: Baker: Multiscale particle injection features and Phase 2B

16:00 Adjourn

### **Tuesday, 28 Feb PM, Rm. below**

**Part 2B: Science Working Group (Salon A) / DSWG (Salon C1)**

**SWG Chairs: J L Burch / T E Moore, DSWG Chair: K Larsen**

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

16:00 Begin DSWG Meeting, Rm. TBD

18:00 Adjourn

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## **Wednesday, 1 Mar AM, Rm: Salon B**

**Part 3: Science Presentations**      **Chair: Guan Le**

08:30. Wilder: Parallel electric fields in magnetosheath reconnection.

08:45. Graham: LHDI in an asymmetric reconnecting current sheet

09:00. Khotyaintsev: Electron holes in a reconnection separatrix

09:15. Ergun: Current Sheet Instabilities in Reconnection

09:30. Plaschke: Magnetosheath Jets

09:45. Andriopoulou: Plasma density from spacecraft potential

10:00 Coffee Break

10:15. Dargent: Cold ions at the magnetopause

10:30. Shuster: Determining MMS trajectories through EDRs

10:45 Gershman: Fluctuations at ion scales in the magnetosheath

11:00 Giles: Plasma distributions in/near diffusion regions

11:15 Strangeway: Magnetopause-Ionosphere coupling by FAC

11:30. Anderson: M-I Coupling and correlations from AMPERE

12:00 Lunch, Poster Session TBD

## **Wednesday, 1 Mar PM, Rm.: TBD**

**Part 4: Science Presentations**      **Chair: Dan Gershman**

13:00. Paterson: Application of trigger terms for studies of turbulence

13:15. Mackler: Magnetosheath Plasma Turbulence in Phase 1A

13:30. Matthaeus: Dayside Turbulence

13:45. Sibeck: KH and foreshock/magnetosheath

14:00. Hesse: EDR Structure

14:15. Liu: Electron pressure tensor divergence

14:30. Reiff: CCMC modeling of MMS EDR encounters

15:00 Break

15:15. Denton: A natural (LMN) coordinate system for MMS

15:30. Chen: Multi-spacecraft EDR perspective

15:45. Wang: Ion energization in the diffusion region

16:00. Drake: 3D kinetic modeling of reconnection

16:15. Holmes: Phase space holes in presence of cold plasma

16:30. Ahmadi: Currents in secondary magnetic reconnection from EDI

17:00 **Reception:** Hammock Beach (or TBD in case of rain)

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### **Thursday, 2 Mar AM, Rm. Salon B**

**Part 5:** Science Presentations      **Chair:** Allison Jaynes

08:30. Genestretti: MMS data comparisons with PIC simulations  
08:45. Cassak: 2D and 3D PIC comparisons with MMS data  
09:00. Jaynes: Chorus Wave Properties and Effects  
09:15. Turner: Energetic particle injections and chorus element scales  
09:30. Cohen: Ion composition in outer magnetosphere  
09:30. Leonard: Particle injections from multiple spacecraft/missions

10:00 Coffee Break

10:15. Lapenta or Newman: TBD  
10:30. Goldman: TBD (30 mins requested).  
10:45. Oka: Electron Acceleration at the Bow Shock.  
11:00. Shay: 3D effects in magnetopause reconnection  
11:15. Phan: Electron heating at the magnetopause  
11:30 Russell: Magnetopause topology implied by electron flows

12:00 Lunch, Poster Session TBD

### **Thursday, 2 Mar PM, Rms: Salon B**

**Part 6:** Science Presentations      **Chair:** Ian Cohen

13:00. Vines – Magnetospheric ion heating in the low latitude boundary layer  
13:15. Broll – Scattering of specularly reflected He<sup>++</sup> at the Earth's bow shock  
13:30. Trattner – Location of magnetic reconnection at the magnetopause  
13:45. Petrinec – Minor ion dynamics in Flux Transfer Events  
14:00. Gomez – Measurements of interstellar pick up ions using MMS HPCA  
14:15. Fuselier – Island structures observed near Electron Diffusion Regions  
14:30. Avinov: Dawn terminator plasma entry injections from MMS

15:00 Break

15:15. Bessho: Guide & electric field effects on electron crescent distributions  
15:30. Zhao: Force balance for varying FTE scale sizes  
15:45. Wei: Electromagnetic waves observed at the bow shock  
16:00. Lai: Control of the magnetosheath phenomena by solar wind properties  
16:15. Kavosi: Electron Microinjections due to K-H instability and FTEs  
16:30. Zhang: Hot flow anomalies from MMS data

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**Friday, 3 Mar AM, Rms. below**

**Part 8:** Instrument Team Splinters

08:30 – 12:00

Theory and Modeling Team Meeting **Salon A**

Turbulence Subgroup, **Salon C**

**Posters:** to appear in or near Salon B earlier in week

Larsen: SDC Data Availability and Access

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McGuire: Enabling Science: Space Physics Data Facility (SPDF)

Alm: TBD