

MMS SCIENCE WORKING TEAM MEETING AGENDA

Tuesday, March 20 – Wednesday March 21

Tuesday, March 20

Part 1: Mission status and ops/Chair: Stephen Fuselier

8:30am Jim Burch: Welcome and logistics

8:40am Dennis Gallagher/Barbara Giles: Program scientist and HQ comments

8:55am Tom Moore: Project Scientist comments

9:10am Craig Tooley/Brent Robertson: Mission level status

9:30am Craig Tooley/Brent Robertson: Mission level I&T status and schedule

9:50am Jim Burch: Science Investigation status

10:10am Ron Black: Instrument Suite / I&T status and schedule

10:30-10:45am Break

10:45am Troy Cline/Pat Reiff: Mission Education and Outreach status

11:05am Vassilis Angelopoulos: "THEMIS orbit re-design to match MMS and provide large-scale context

11:25am Yuri Khotyaintsev: Cluster results related to reconnection

11:45am-1:00pm Break

Part 2: Science/Chair: Tom Moore

1:00pm MMS TM Team

1:00pm Michael Hesse: Outflow jet and visualization tools

1:20pm Marc Swisdak: The impact of turbulence on the structure of the dissipation region

1:40pm Richard Denton: Determining the orientation and velocity of a reconnecting structure from multiple spacecraft data

2:00pm Joachim Birn: Flow bursts and particle acceleration

2:20pm William Matthaeus: Conditional statistics approach to

identification of reconnection regions and dissipative structures
2:40pm Nicholas Aunai: Hybrid modeling of reconnection

3:00pm – 3:15pm Break

3:15pm IDS 1:

3: 25pm Tai Phan: "Contrasting X-line and O-line signatures"

3:45pm Forrest Mozer: "Observations near the X-line"

4:05pm Kittipat Malakit: "Properties of asymmetric reconnection diffusion region from simulations".

4:25pm Mike Shay: "Super-Alfvénic propagation of energy released during magnetic reconnection in the Earth's magnetotail ". (Tom Moore invited Mike to talk about this topic.)

4:45pm Michael Sitnov: dipolarization fronts using THEMIS observations and simulations.

Wednesday, March 21

Chair: Richard Denton

8:30am IDS 2:

8:30am Mel Goldstein: dissipation of magnetofluid turbulence

8:50am John Dorelli: FPI moments error analysis and in-flight calibration (with applications to a simulated electron diffusion region crossing at the dayside magnetopause)

9:10am Maha Ashour-Abdalla: electron acceleration in the tail

9:30am Mustafa El-Alaoui: turbulence in the magnetotail

9:50 – 10:05am break

10:05am IDS 3:

10:05am Martin Goldman: Introduction, Hall fields and fluxes

10:25am Gianni Lapenta: New instabilities near the separatrix in 3D implicit PIC reconnection simulations

10:45am David Newman: Evidence for multiple X-point reconnection: measurements in solar wind compared to simulations

11:05am Stefan Eriksson: Electron orbits and velocity distributions

along simulated MMS trajectories

Part 3: Science operations and analysis/ Chair: Michael Hesse

11:25am Conrad Schiff: Flight Dynamics

11:45am Lunch

12:00: SOC SITL Splinter Session (Bldg./Rm. TBA)

1:00pm Pete Spidaliere/Roy Torbert: Commissioning and operations

1:30pm Steven Fuselier: MMS orbit

2:00pm Tom Moore: Phase 1x Science Opportunities

2:30pm Lon Riesberg: Science Data Center: Data Access and SITL

3:15pm Bob Ergun/Tai Phan: Burst mode and SITL Process

3:45pm Tom Moore: Data products

4:15pm Tom Moore: Outcome of SES and SITL discussions

4:30pm Jim Burch: Conclusion, action items and next SWT meeting