

# Joint THEMIS/ARTEMIS and Van Allen Probes Spring SWG

Johns Hopkins University, Applied Physics Laboratory, March 11-14, 2014

## Meeting Overview

- 3/11 Tuesday PM: THEMIS specific SWG meeting in 200-E273
- 3/12 Wednesday AM: THEMIS specific SWG meeting in 200-E273
- 3/12 Wednesday PM: Joint Workshop: Plenary in 200-E100 and then move to splinter rooms
- 3/13 Thursday AM: 1 hour of business and then Joint Workshop: Plenary in 200-E100 then move to splinters in B200
- 3/14 Thursday PM: Joint Workshop: Plenary in 200-E100 then move to splinters in B200
- 3/15 Friday AM: 1 hour Workshop Reports followed by business (all in 200-E100).

## Meeting Schedule

### **Tuesday March 11<sup>th</sup> Afternoon, Room 200-E273 (10 minute talks)**

1:00-1:15 PM	Welcome to JHUAPL (Anthony Lui)
1:15-1:35 PM	View from HQ (Elsayed Talaat)
1:35-1:55 PM	THEMIS/ARTEMIS spacecraft and instrument status (Angelopoulos)
1:55-2:20 PM	THEMIS/ARTEMIS mission planning (Angelopoulos)
2:20-2:35 PM	Quantified Energy Dissipation Rates in the Terrestrial Bow Shock (Lynn Wilson III)
2:35-2:50 PM	An Extreme Hot Flow Anomaly and Its Geoeffect (Hui Zhang)
2:50-3:05 PM	Hot Flow Anomalies at Earth's Bow Shock (Christina Chu)
3:05-3:15	Break
3:15-3:30 PM	Statistical Study of Magnetosheath Plasma Density Enhancement Properties (Olga Gutynska)
3:30-3:45 PM	Magnetospheric Boundary Perturbations in MHD and Kinetic Scales (Sheng-Hsien Chen)
3:45-4:00 PM	Pressure Balance at the Subsolar Magnetopause (David Sibeck)
4:00-4:15 PM	Interplanetary Shock Effect on the Magnetotail at ~60 Re: ARTEMIS Observations (Xiaoyan Zhou)
4:15-4:30 PM	Sudden impulse observations in the dayside magnetosphere by THEMIS (Andrey Samsonov)
4:30-4:45 PM	The Plasmaspheric Cold Ion Behavior during Magnetic Reconnection at the Dayside Magnetopause (Sun-Hee Lee)

- 4:45-5:00 PM Simultaneous Ground- and Space-Based Observations of the Plasmaspheric Plume and Reconnection (Brian Walsh)
- 5:00-5:15 PM Using Van Allen Probes to estimate decontamination factors for THEMIS-SST in the inner magnetosphere (Drew Turner)
- 5:15-5:30 PM Quasi-Static Electric Fields in the Inner Magnetosphere Measured by THEMIS Probes (Xinlin Li)
- 5:30-5:45 PM ULF Power Spectrum in the Inner Magnetosphere measured by GOES, Van Allen and THEMIS Probes (Xinlin Li)

**Wednesday March 12th Morning, Room 200-E273 (10 minute talks)**

- 9:00-9:15 AM Competing source and loss mechanisms due to wave-particle interactions in Earth's outer radiation belt during the 30 Sep. - 03 Oct. 2012 geomagnetic storm (Drew Turner)
- 9:15-9:30 AM EMIC wave generation in the presence of MLT-dependent cold ion species (Justin Lee)
- 9:30-9:45 AM Large-Amplitude Electric Fields Associated with Bursty Bulk Flow Braking in the Earth's Plasma Sheet (Katherine Goodrich)
- 9:45-10:00 AM Extent of ECH Wave Emissions in Earth's Magnetotail (Xiaojia Zhang)
- 10:00-10:15 AM Energy conversion at reconnection fronts (Vassilis Angelopoulos)
- 10:15-10:30 AM Statistical characteristics of particle injections throughout the equatorial magnetotail (Christine Gabrielse)
- 10:30-10:45 AM Generation of High Frequency Electric Field Activity by Turbulence in the Earth's Magnetotail (Julia Stawarz)
- 10:45-11:00 AM How dipolarizing flux bundles shape the near-Earth tail flux transport (Jiang Liu)
- 11:00-11:15 AM Break
- 11:15-11:30 AM On the origin of magnetic and dawn-dusk asymmetric pressure perturbations ahead of dipolarization fronts (Xu-Zhi Zhou)
- 11:30-11:45 AM Anti-dipolarization Fronts observed by ARTEMIS (Shan-shan Li)
- 11:45-12:00 PM The magnetospheric source of the pre-existing auroral arc (Feifei Jiang, but Robert Strangeway will present this talk).
- 12:15-12:30 PM Reserved for late additions
- 1:00PM- Joint Workshop: Plenary in 200-E100 and then move to splinter rooms