

# 5<sup>th</sup> Cluster and Double Star Tail Workshop

## Preliminary Programme

For those attending the SOWG on Monday 26<sup>th</sup> March, a light lunch will be available from approximately 1300, while the meeting itself will start at 1400. The SWT will take place all day on Tuesday 27<sup>th</sup> March.

The Workshop dinner will take place at the Parrot Inn, Forest Green, in the evening of Wednesday the 28<sup>th</sup>, starting at around 1900. Additionally, a trip to the Hog's Back Brewery, a producer of award-winning real ales, has been arranged for Thursday afternoon, leaving the lab at ~1600. After this tour there will be an opportunity for dinner in Guildford if you wish, returning to the lab at ~2200. Alternatively there will be a transfer back to MSSL straight from the brewery, arriving at MSSL at ~2000.

A preliminary science programme for the Cluster Workshop itself is below, if you have not yet submitted an abstract and still wish to do so let us know, there's plenty of time in the programme.

All talks have been provisionally timetabled to last approximately 30 minutes.

	0900-1030	1100-1230	1230-1330	1330-1500	1530-1700	Evening
<b>Wednesday 28th</b>	Welcome & Large Scale Studies		<b>LUNCH</b>	Event Discussions 1		Workshop Dinner at The Parrot Inn
<b>Thursday 29th</b>	Reconnection		<b>LUNCH</b>	Theory & Simulation	Trip to the Hog's Back Brewery & Guildford	
<b>Friday 30th</b>	Event Discussions 2		<b>LUNCH</b>	Events		

### **Wednesday Morning Session: Welcome and Large Scale Studies**

<b>0900</b>	Registration & Welcome – <b>Andrew Fazakerley</b>
<b>0930</b>	Tribute to Faraday – <b>Walter Heikkila</b>
<b>1000</b>	The THEMIS mission: background, current status, and coordination with Cluster and Double Star – <b>Melvyn Goldstein et al.</b>
<b>1030</b>	Coffee
<b>1100</b>	Fast Flows in a THEMIS-like configuration: part 1 – <b>Martin Volwerk et al.</b>
<b>1130</b>	Quasi-periodic Dipolarisations in the mid-magnetotail observed by Cluster and Double Star – <b>Malcolm Dunlop et al.</b>
<b>1200</b>	Observed current systems associated with bursty bulk flows and auroral streamers during a period of multiple substorms – <b>Colin Forsyth</b>

### **Wednesday Afternoon Session: Event Discussions 1**

Version 5 PEACE Calibrations	Andrew Fazakerley
2006 Event Overview	Andrei Runov
Isolated Substorm / Plasmoid	Walter Heikkila
Current Sheet Thinning / Flow Reversal	Andrei Runov

### Thursday Morning Session: Reconnection

<b>0900</b>	Cluster measurements of the divergence of the electron pressure tensor and $J \times B$ : Relative contributions to Ohm's law – <b>Paul Henderson</b>
<b>0930</b>	Near Simultaneous Flux Rope observations with Cluster and Double Star – <b>Andrew Walsh</b>
<b>1000</b>	Plasma acceleration around the magnetic reconnection region – <b>Yoshihiro Asano</b>
<b>1030</b>	Coffee
<b>1100</b>	High energy electron beams in relation with near-Earth reconnection events – <b>Arne Asnes</b>
<b>1130</b>	Comment on Taylor et al. “Cluster encounter with an energetic electron beam during a substorm” [JGR Nov 2006] – <b>Walter Heikkila</b>
<b>1200</b>	Reconnection vs Change in Interconnection – <b>Walter Heikkila</b>

### Thursday Afternoon Session: Simulation and Theory

<b>1330</b>	Kinetic theory and simulations of the tail current sheet: Atypical current sheets, plasma bubbles and reconnection onset - <b>Mikhail Sitnov</b>
<b>1400</b>	Substorm Triggering Instability – <b>Walter Heikkila</b>
<b>1430</b>	Spare slot

### Friday Sessions – Event Discussions 2

High Latitude Substorm	Ilya Alexeev
Cluster - Geotail Conjunctions	Yoshihiro Asano
Cluster - Double Star Substorm Study	Andrew Walsh
Any Others	