

**Agenda**  
**CAPS/INMS/MIMI Joint Team Meeting**  
**CAPS Team Meeting #33**  
**November 13-15, 2006**  
**University of Virginia**

**The meeting website for information about arrangements is still:**

<http://www.people.virginia.edu/~rej/cassini/index.html>

**See Venue and Directions for room locations**

**Please note that the start times are different on each day:**

**Monday—9:00**

**Tuesday—8:00**

**Wednesday—8:30**

**9:00 AM Monday, November 13 (Room 318 Special Collections Library)**

**[9 AM INMS Team Meeting (Room 481 Newcomb Hall): Agenda not given]**

Plenary: Welcome, local arrangements, agenda

Smith/Young

Split for CAPS and INMS Team meetings for remainder of the day.

9:00 CAPS project status

Young

9:30 Flight operations, software, ground system, archival

Furman/Mokashi

10:00 General discussion of current & past ops & data issues

All

11:00 Science planning (current and extended mission); future ops

Crary

11:30 IBS status

Thomsen

12:00 Lunch

1:00 ELS status (including calibration and data analysis issues)

Gilbert

1:30 IMS status (including calibration and data analysis issues)

Crary/Thomsen

1) Simulated TOF spectra and detection efficiencies

Reisenfeld et al.

2) Geometric Factor values from CETP simulation

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3) Accessing TOF data organized by L-value, LT, etc.

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4) Monte Carlo model for IMS

Fama

5) Analysis of prototype calibration data at GSFC

Shappirio

6) SAM group tables

Sittler

**5:30 Adjourn (Cocktail Party: Colonnade Club, Campus)**

## **8:00 AM Tuesday November 14: Science Discussions (CAPS/INMS/MIMI) (Commonwealth Room, Newcomb Hall)**

### **Ground rules:**

- 1) These are NOT AGU or EUROPLANET “talks”. They are meant to be reports on, and discussion of, current research topics.
- 2) There are 30 discussion topics, which works out to 30 minutes per topic including discussion. Time limits will be enforced. However an effort has been made to put similar topics together so momentum isn’t lost from talk to talk.

### **Saturn’s Magnetosphere**

Burch: Outward transport of plasma from Tethys and Dione.

Hill: Transport in Saturn’s magnetosphere.

Rymer: Evolution of particle pitch angle distributions.

Paranicas: Electron injections and dispersion: age and longitude.

Mitchell: Interdisciplinary observations of ion conics and ion acceleration.

Sittler: Cassini observations of Saturn's dawn-magnetotail region and their relation to models of Saturn's aurora: Preliminary results.

Schippers: Electron observations from the Caps-MIMI-MAG instrument suite.

Reisenfeld: Abundances and energetics of  $W^+$  and  $O_2^+$  after 24 Cassini orbits.

Thomsen: Composition of low-flux ions in the outer magnetosphere.

Henderson: A new moments code and sample results.

Young: Rotational modulation of ion fluxes.

### **Titan**

Mitchell: Energetic ions at Titan (TBC).

Coates: Electron and negative ion observations during Titan encounters.

Tom Cravens: The structure and sources of Titan's ionosphere.

Waite: Aerosol production at high altitudes.

Crary: Titan ion composition from IBS and INMS.

Magee: Neutral composition on T16 – T19.

Vuitton: Nitrile ion neutral chemistry.

**6:00 Adjourn---Joint Team Dinner (Cassis Restaurant, Downtown).**

**8:00 AM Wednesday November 15: Science Discussions—Continued (CAPS/INMS/MIMI) (Room 318 Special Collections Library)**

Ledvina: Hybrid simulations of the Titan/magnetosphere interaction.

Szego: Results from, and comparisons of, the T11-T17 encounters.

Johnson: The Titan corona.

Ina Robertson: The energetics of Titan's ionosphere.

Hartle: Pickup ions and ion precipitation at Titan: TA-T5.

**Icy Satellites**

Wilson: Thermal plasma observed by CAPS during the Nov. 26, 2005, Rhea Encounter.

Tokar: Further analysis of CAPS data near the orbit of Enceladus.

Burger: Ion Mass Loading at Enceladus and Dione.

Cooper: Radiolytic Oxidant Power for the Enceladus Plumes.

Baragiola: Interaction of O<sub>2</sub> molecules with ice surfaces: Exosphere and surface oxygen balance at Enceladus.

Smith: The inner magnetospheric nitrogen torus.

Mark Loeffler: The Enceladus plume.

**4:50 Any other business—Next Meeting**

**5:00 Wednesday, November 15: Adjourn**