

**Thursday, March 15, 2007**  
**ICY SATELLITE SURFACES**  
**1:30 p.m. Crystal Ballroom B**

**Chairs: A. R. Hendrix**  
**L. M. Prockter**

- 1:30 p.m. Dalton J. B. \*  
*Icy Saturnian Satellite Surface Compositions: Mapping and Modeling* [#2415]  
 The icy saturnian satellites are slowly, if grudgingly, beginning to give up the secrets of their surface composition.
- 1:45 p.m. Hendrix A. R. \* Hansen C. J.  
*Iapetus, Hyperion and Phoebe: Comparisons from Cassini UVIS* [#1916]  
 Cassini UVIS data of Hyperion, Phobe and Iapetus' dark and bright terrains are intercompared in the 110–190 nm region. Compositional variations are measured within Iapetus' dark terrain. The Phoebe spectrum does not match the Iapetus dark spectrum.
- 2:00 p.m. Wagner R. J. \* Neukum G. Giese B. Roatsch T. Wolf U.  
*The Global Geology of Rhea: Preliminary Implications from the Cassini ISS Data* [#1958]  
 Cassini ISS camera data returned from Saturn's second-largest satellite Rhea were examined. Geologic and topographic data were extracted. Geologic units were dated with cratering chronology models.
- 2:15 p.m. Patterson G. W. \* Head J. W.  
*Non-Transform Structural Discontinuities on Europa* [#1081]  
 We use segmentation along terrestrial mid-ocean ridges as an analog for the mechanics of formation and the evolution of Belus Linea, a complex ridge on Europa.
- 2:30 p.m. Zahnle K. \* Alvarellos J. Dobrovolskis A. Hamill P.  
*Transfer of Impact Ejecta from Io to Europa* [#2001]  
 Comet impacts on Io generate numerous high velocity spalls, many of which are ejected at speeds high enough to escape into independent orbits around Jupiter. Many of the spalls ultimately reach Io, and some reach Ganymede. Spalls from Io are the chief source of rocks to Europa's ice shell.
- 2:45 p.m. Desch S. J. \* Cook J. C. Hawley W. Doggett T. C.  
*Cryovolcanism on Charon and Other Kuiper Belt Objects* [#1901]  
 We present time-dependent thermal evolution models of KBO interiors and find that bodies as small as Charon can retain liquid water to the present day and experience cryovolcanism, consistent with observations of Charon and Quaoar.