

Thursday, July 29, 2010

**ASTEROIDS: COMPOSITION, EVOLUTION, DYNAMICS AND CONNECTION TO METEORITES**  
**1:30 p.m. Skyline**

- Chairs:** David O'Brien  
 Andrew Rivkin
- 1:30 p.m. Lauretta D. S. \* Drake M. J. Benzel R. P. Campins H. Chesley S. R. Clark B. E. Delbo M. Emery J. P. Hergenrother C. A. Nolan M. C. Scheeres D. J. OSIRIS-REx Team  
[\*Asteroid \(101955\) 1999 RQ36: Optimum Target for an Asteroid Sample Return Mission\*](#) [#5153]
- 1:45 p.m. Treiman A. H. \* McCanta M. C.  
[\*Amphibole-rich R Chondrite LAP 04840 — From an Icy Asteroid or Main-Belt Comet?\*](#) [#5389]
- 2:00 p.m. Rivkin A. S. \*  
[\*The Diversity of Hydrated Material on Low-Albedo Asteroids\*](#) [#5132]
- 2:15 p.m. Buchanan P. C. \* Zolensky M. E. Hiroi T. Le L. Galindo C. Jr.  
[\*Reflectance Spectra Comparisons of an Allende Dark Inclusion and Asteroids\*](#) [#5316]
- 2:30 p.m. Fieber-Beyer S. K. \* Gaffey M. J. Kelley M. S. Reddy V. Reynolds C. M. Hicks T.  
[\*The 3:1 Kirkwood Gap and the Maria Family: Genetic Family Membership and Probable Source Body of Mesosiderites\*](#) [#5122]
- 2:45 p.m. Gaffey M. J. \*  
[\*How Many Ordinary Chondrite Parent Bodies: What's in the Bucket?\*](#) [#5265]
- 3:00 p.m. Binzel R. P. \* Morbidelli A. Merouane S. DeMeo F. E. Birlan M. Vernazza P. Thomas C. A. Rivkin A. S. Bus S. J. Tokunaga A. T.  
[\*Asteroid Analogs to Ordinary Chondrite Meteorites: Earth Encounters as the Key to Resolving the Paradox\*](#) [#5263]
- 3:15 p.m. Vernazza P. \* Cipriani F. Dukes C. Fulvio D. Howard K. T. Witasse O. Brunetto R. Strazzulla G. Binzel R. P. Bland P. A. Baragiola R.  
[\*Meteorite Analogs for Phobos and Deimos: Unraveling the Origin of the Martian Moons\*](#) [#5076]
- 3:30 p.m. Djouadi Z. \* Robert F. Mostefaoui S. d'Hendecourt L. Leroux H. Borg J.  
[\*Hydroxyl Radicals in Silicates Induced by Proton Irradiation\*](#) [#5048]
- 3:45 p.m. Christoffersen R. \* Dukes C. Keller L. P. Baragiola R.  
[\*The Effect of Space Radiation Processing on the Surface Chemistry of Lunar Regolith Grains: Experimental Constraints\*](#) [#5379]
- 4:00 p.m. Richardson J. E. \*  
[\*A Finite-Element Model of Asteroid Surface Evolution: Slope Processes, Crater Creation and Erasure, Regolith Generation and Loss\*](#) [#5285]
- 4:15 p.m. Greenwood R. C. \* Franchi I. A. Chaumard N. Devouard B. Burbine T. H.  
[\*Is the Eos Family Derived from the Breakup of a Stratified CV-CK Parent Body?\*](#) [#5430]
- 4:30 p.m. Haack H. \* Michelsen R. Stober G. Keuer D. Singer W.  
[\*The Maribo CM2 Fall: Radar Based Orbit Determination of an Unusually Fast Fireball\*](#) [#5085]
- 4:45 p.m. O'Brien D. P. \*  
[\*Collision Velocities in the Asteroid Belt: Implications for Melt Production on Meteorite Parent Bodies\*](#) [#5063]