

**Tuesday, March 13, 2007**  
**SPECIAL SESSION: SMART-1**  
**8:30 a.m. Amphitheater**

**Chairs: B. H. Foing**  
**P. Ehrenfreund**

- 8:30 a.m. Foing B. H. \* Camino O. Schoenmakers J. de Bruin J. Gestal D. Alonso M. Blake R. Ricken S. Pardo P. Koschny D. Frew D. Almeida M. Sarkarati M. Volp J. Schwehm G. Josset J. L. Beauvivre S. Sodnik Z. Grande M. Keller U. Nathues A. Ehrenfreund P. Racca G. D. SMART-1 STWT and Spacecraft Operations Team  
*SMART-1 Mission Overview from Launch, Lunar Orbit to Impact* [#1915]  
 We shall give an overview of the SMART-1 mission, travel and operations from launch, lunar capture, lunar science orbit to impact.
- 8:45 a.m. Foing B. H. \* Grande M. Huovelin J. Josset J.-L. Keller H. U. Nathues A. Malkki A. Noci G. Kellett B. Beauvivre S. Cerroni P. Pinet P. Makkinen H. Mall U. Almeida M. Frew D. Volp J. Sarkarati M. Heather D. Koschny D. Zender J. McMannamon P. Camino O. SMART-1 Science Technology Working Team  
*SMART-1 Mission: Highlights of Lunar Results* [#1953]  
 The SMART-1 spacecraft reached on 15 March 2005 a lunar orbit 400–3000 km for a nominal science period of six months, with 1 year science extension until September 2006. We shall report on highlights of lunar science and exploration results.
- 9:00 a.m. Koschny D. \* Foing B. H. Frew D. Almeida M. Sarkarati M. Volp J. Grande M. Huovelin J. Josset J.-L. Nathues A. Malkki A. Noci G. Kellett B. Beauvivre S. Heather D. Zender J. McMannamon P. Schwehm G. Camino O. Blake R. SMART-1 Operations Team SMART-1 Science Technology Working Team  
*SMART-1 Lunar Science Planning* [#1996]  
 The SMART-1 spacecraft reached lunar capture on 17 November 2004, and on 15 March 2005 a lunar orbit 400–3000 km for a nominal science period of six months, with 1 year science extension. We report on the SMART-1 science planning methods, tools and lessons learned.
- 9:15 a.m. Josset J.-L. \* Beauvivre S. Cerroni P. De Sanctis M. C. Pinet P. Chevrel S. Langevin Y. Barucci M. A. Plancke P. Koschny D. Almeida M. Sodnik Z. Mancuso S. Hofmann B. A. Muinonen K. Shevchenko V. Shkuratov Yu. Ehrenfreund P. Foing B. H.  
*SMART-1/AMIE Camera Results* [#1767]  
 The Advanced Moon micro-Imager Experiment (AMIE), on board ESA SMART-1, the first European mission to the Moon, is an imaging system with scientific, technical and public outreach oriented objectives. This paper presents the first results obtained during the cruise phase and at the Moon.
- 9:30 a.m. Grande M. \* Kellett B. J. Howe C. Perry C. H. Swinyard B. Dunkin S. Huovelin J. Alha L. D'Uston L. C. Maurice S. Gasnault O. Barabash S. Joy K. H. Crawford I. A. Lawrence D. Fernandes V. Casanova I. Wiczorek M. Thomas N. Mall U. Foing B. Hughes D. Alleyne H. Russell S. Grady M. Lundin R. Baker D. Murray C. D. Guest J. Christou A.  
*Observations of Past Lunar Landing Sites by the D-CIXS X-Ray Spectrometer on SMART-1* [#1154]  
 D-CIXS initial observations show a first unambiguous remote sensing of calcium in the lunar regolith. Data obtained are broadly consistent with current understanding of mare and highland composition. Ground truth is provided by the returned Apollo and Luna sample sets.
- 9:45 a.m. Robin-Williams R. Burchell M. J. \*  
*Laboratory Simulations of SMART-1 Impact on the Moon* [#1651]  
 Laboratory impact experiments are used to predict the size and shape of the crater resulting from the SMART-1 impact on the Moon.

- 10:00 a.m. Ehrenfreund P. \* Foing B. H. Veillet C. Wooden D. Gurvits L. Cook A. C. Koschny D. Biver N. Buckley D. Ortiz J. L. Di Martino M. Dantowitz R. Cooke B. Reddy V. Wood M. Vennes S. Albert L. Sugita S. Kasuga T. Meech K. Tokunaga A. Lucey P. Krots A. Palle E. Montanes P. Trigo-Rodriguez J. Cremonese G. Barbieri C. Ferri F. Mangano V. Bhandari N. Chandrasekhar T. Kawano N. Matsumoto K. Taylor C. Hanslmeyer A. Vaubailion J. Schultz R. Erd C. Gondoin P. Levasseur-Regourd A.-C. Khodachenko M. Rucker H. Burchell M. Cole M. Koschny D. Svedhem H. Rossi A. Colaprete T. Goldstein D. Schultz P. H. Alkalai L. Banerdt B. Kato M. Graham F. Ball A. Taylor E. Baldwin E. Berezhnoy A. Lammer H. Koschny D. Talevi M. Landeau-Constantin J. v. Weyhe B. Ansari S. Lawton C. Lebreton J. P. Friedman L. Betts B. Buoso M. Williams S. Cirou A. David L. Sanguy O. Burke J. D. Maley P. D. de Morais V. M. Marchis F. Munoz J. M. H. Dighaye J.-L. Taylor C.
- SMART-1 Impact Ground-based Campaign [#2446]*  
Based on predictions of impact magnitude and cloud ejecta dynamics, we organized a SMART-1 ground-based observation campaign to perform coordinated measurements of the impact. Results from the coordinated multi-site campaign will be discussed.
- 10:15 a.m. Veillet C. \* Foing B.
- SMART-1 Impact Observation at the Canada-France-Hawaii Telescope [#1520]*  
This talk will present the current status of the processing of the sequence of impact images obtained at CFHT, from the analysis of the impact flash to the geometry of the plume seen spreading over the 90 seconds following the impact.