Thursday, March 22, 2012
POSTER SESSION II: DATASETS AND ARCHIVES: FROM ASTROMATERIALS TO IMAGES
6:00 p.m. Town Center Exhibit Area

Todd N. S. Satterwhite C. E. Righter K.
Antarctic Meteorite Classification and Petrographic Database Enhancements **[#2935]**
Describes the Antarctic Meteorite Classification Database and the latest enhancements made to the data acquisition process used to provide updated meteorite data concurrent with the publication of the Antarctic Meteorite Newsletter twice a year.

Ferrière L. Brandstätter F.
Digitalization Project of the Meteorite Collection of the Natural History Museum, Vienna **[#1985]**
The meteorite collection of the Natural History Museum, Vienna, one of the world's largest collection (with about 2400 individual meteorites and more than 7000 registered individual specimens) is now about to be entirely digitized.

Daviau K. C. Mayne R. G. Ehlmann A. J.
An XRF Study of Meteorites **[#1306]**
Meteorites from the Oscar E. Monnig collection at TCU were scanned with a Bruker Tracer-III SD XRF machine in order to begin creating a library of XRF spectra for different groups of meteorites.

Williams D. R. Hills H. K. Guinness E. A. Taylor P. T. McBride M. J.
Restoration of Apollo Data by the NSSDC and PDS Lunar Data Node **[#2476]**
We report on the progress made by the Planetary Data System Lunar Data Node and the National Space Science Data Center retrieving and restoring Apollo data. The restored datasets are being reformatted and archived with PDS and NSSDC.

Paris K. N. Robinson M. S. Lawrence S. J. Danton J. Bowman-Cisneros E. Licht A. Close W. Ingram R.
The Apollo Digital Image Archive: Project Status **[#2273]**
Photographs acquired by the Apollo astronauts are currently being scanned at JSC and the files sent to ASU for the Apollo Digital Image Archive. The metric frames are nearing completion while the panoramic frames are in the process of being released.

McBride M. J. Williams D. R. Hills H. K.
Restoration and Reexamination of Apollo Lunar Dust Detector Data from Original Telemetry Files **[#2075]**
We have retrieved Apollo Dust Detector data from the raw ALSEP telemetry at NSSDC and are converting it into voltages and temperatures for archive through the PDS Lunar Data Node. We report on progress and preliminary examination of the data.

Berlanga G. Richard D. T. Marshall J. Davis S.
Testing of a Polar Nephelometer for Use in the Creation of a Dust Database Supporting Lunar Science Applications **[#2464]**
We created a program to help develop a lab database of dust scattering measurements. The program is tailored to meet needs for spectra acquisition automation, increased measurement precision and accuracy, and real-time processing of scattering data.

Holmer C. I. II
An Overview of the Innovative Lunar Demonstration Data (ILDD) Program: NASA's Next Steps to Extending Public/Private Partnerships Beyond Earth Orbit **[#1605]**
The Innovative Lunar Demonstration Data (ILDD) program is a way to reap benefits from the knowledge from commercial attempts to return to the Moon. This paper will review the ILDD program and its goals, objectives, and benefits to the participants.

Terazono J. T. Nakamura R. N. Kodama S. K. Yamamoto N. Y. Demura H. D. Hirata N. H. Ogawa Y. O. Sugawara T. S.
WISE-CAPS: Archiving, Browsing and Analyzing Environment for Lunar and Planetary Data: Current Enhancement and Future Prospect **[#1198]**
This presentation describes current enhancement and future prospects on our web-GIS-based archiving, browsing, and analyzing environment of lunar and planetary data, called "WISE-CAPS," including integrated data display and data uploading mechanism.

Hagerty J. J. RPIF Network Node Directors and Managers
The Regional Planetary Image Facility Network **[#1548]**
NASA's Regional Planetary Image Facilities are data and information centers for browsing, studying, and selecting planetary data including images, maps, supporting documentation, and outreach materials.

Hare T. M. Skinner J. A. Jr. Fortezzo C. M. Tanaka K. L. Nava R. A.
The Astrogeology Mapping, Remote-Sensing, Cartography, Technology, and Research (MRCTR) GIS Lab **[#2871]**
This year we have formalized the MRCTR, as in "Mercator", GIS Lab, a concept we have initiated as a means to support digital mapping and development of GIS tools. We will focus on creating a technical foundation prior to the retirement of PIGWAD.

Semenov M. Oberst J. Malinnikov V. Shingareva K. Konopikhin A. Grechishchev A. Karachevtseva I. Shkurov F.
Space Science Support in Moscow State University of Geodesy and Cartography (MIIGAiK) **[#1997]**
For the future science development MIIGAiK investigated the old Soviet Archives and received the access to the telemetry data of Lunokhod-1 and Lunokhod-2. That data will be used for education purposes and support in new missions.

Neakrase L. D. V. Huber L. Rees S. Roybal M. Beebe R. Crichton D. J. Hughes J. S. Gordon M. K. Mafi J.
Data Migration Strategies: Preparing for the Move to PDS4 **[#2557]**
The NASA Planetary Data System beginning late in 2012, will be publicly moving from version 3 to 4 of the archive. Maintaining data integrity and accessibility for past archived data is important to user confidence under the modernized system.

Huber L. Neakrase L. D. V. Rees S. Roybal M. Beebe R. Crichton D. J. Delory G. T. DeWolf A. Hughes J. S. Mafi J.
LADEE and MAVEN: Active Mission Pipeline Development Using PDS4 **[#2589]**
Beginning late in 2012, the PDS will be moving from version 3 to 4 of its archival system. The first two missions to archive under the new system will be LADEE and MAVEN. These missions will exercise the new standards and aid in development of PDS4.

Stein T. C.
Accessing MER Mosaic Image Data Using PDS Analyst's Notebook Mosaic Viewer **[#1305]**
The PDS Analyst's Notebook provides access to MER data archives. The Mosaic Viewer (http://an.rsl.wustl.edu/mv) is a new interactive tool within the Analyst's Notebook for viewing MER traverse maps and image mosaics.

Bailen M. S. Hare T. M. Akins S. W. Isbell C.
Astropedia — A Data Portal for Planetary Science **[#2478]**
Astropedia is a data portal that allows easy ingestion, presentation, and delivery of cartographic products housed at the USGS Astrogeology Science Center, made available in a consistent, efficient, and user-friendly manner.

Ishikawa S. T. Gulick V. C.
Clickworkers Interactive: Towards a Robust Crowdsourcing Tool for Collecting Scientific Data **[#2927]**
We present a web-based platform for collecting massive amounts of data from a volunteer workforce tasked with analyzing data captured by the High Resolution Imaging Science Experiment (HiRISE) instrument.

Henneken E. A. Accomazzi A. Kurtz M. J. Grant C. S. Thompson D. Di Milia G. Luker J. Thiell B. Murray S. S.
Online Discovery: Search Paradigms and the Art of Literature Exploration **[#1022]**
Furthering science depends critically on discoverability of literature, and therefore on accurate and intelligent search tools. In this presentation we discuss new search paradigms and techniques explored in "ADS Labs," offered by the ADS.

Ceamanos X. Douté S. Fernando J. Schmidt F. Pinet P. Lyapustin A.
MARS-ReCO: Multiangle Approach for Retrieval of Surface Reflectance from CRISM/MRO Observations **[#2697]**
Retrieval of surface reflectance of Mars is carried out using CRISM multi-angular observations acquired during the ongoing Mars Reconnaissance Orbiter (MRO) mission thanks to the MARS-ReCO approach that considers a non-Lambertian surface.

Cseh R. Varga T. P. Bérczi Sz. Varga T. N.
Educational Relationships the Development of the Hunveyor 13 Informatics Architecture **[#1183]**
The HUNVEYOR 13 space probe model informatics system has several levels, proportioned hierarchically on the basis of function, which can be formed in a flexible way. Certain blocks of function are handled as functional units.