

Washington University / China Interactions

PDS 2010 System Review

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Overview

- Initial and continued interactions in China
- NASA-CNSA Bilateral (July 2009)
- Ongoing / future efforts

Initial interactions, 2006

- Initial visit to Chinese Academy of Sciences (CAS) and Shandong University, Weihai
 - 100 participants from throughout China at Weihai planetary workshop
 - Share Washington University approach to planetary science and PDS planetary data archiving (not representing NASA)
 - Sign formal agreement to continue collaboration
 - Provide guidance to Shandong University Dept of Physics and Space Science
 - Assist with establishment of planetary data lab at Shandong University
 - Work with best students to apply to Washington University graduate program
- Reciprocal visit to Washington University in St. Louis
 - Discuss common research interests
 - Assisted with design of data archiving system at Shandong University

Continued interactions

- 2007: Memorandum of Understanding of Scientific Cooperation between Chinese Academy of Geological Sciences and Washington University
 - Planetary science
 - Geophysics
 - Mars analog site studies
- Workshops, tutorials, and undergraduate short courses conducted at Shandong University in 2007, 2008, and 2009

Continued interactions

- July 2009: Lunar Science Workshop; three Washington University presenters discussing
 - PDS standards and archives
 - NASA planetary science community structure
 - How community influences long-term policy
- July 2009: Yinghuo-1 selected science and data team members attended PDS workshop at Shandong University hosted by Geosciences Node
- July 2009: Washington University personnel taught planetary short course at Shandong University

Continued interactions

- Shandong students admitted to Washington University for graduate-level courses and degrees
 - Two have returned and are Chang'E team members working on data analysis
- Visits to Washington University by members of Chinese Academy of Geological Sciences
- Ongoing field studies of Tibetan saline lake deposits
- Act as a conduit for communications between NASA, LPI, and Chinese colleagues (LPSC 2010)

NASA-CNSA Bilateral

- Meeting held July 23, 2009 at Ames Research Center
- Experts from NASA and the China National Space Administration (CNSA) met to discuss space science cooperation
- Both sides presented current status and future plans of their lunar and planetary programs before substantive discussions commenced
- Discussions were tightly focused and highly productive

NASA-CNSA Bilateral

Key results / proposals

The following list of results and proposals will be submitted to the NASA-CNSA Earth and Space Science Working Groups for approval.

1. CNSA approved China's membership in the International Lunar Network and indicated they will send a letter of request to join ILN.
2. Technical discussions will be held to discuss archiving China's planetary data in an open network accessible system like the Planetary Data System (PDS). In addition, CNSA was invited to join the International Planetary Data Alliance (IPDA) that uses PDS standards. NASA experts will travel to the National Astronomical Observatories of China (NAOC) to meet with their Chinese counterparts to discuss these approaches before the end of the calendar year.
3. Representatives from the NASA Lunar Science Institute (NLSI) proposed to hold discussions with Chinese universities on the process of joining the NASA Lunar Science Institute at Ames Research Center as affiliate members before the end of the calendar year.

Ongoing / future efforts

- Chinese consulate delegation visited Geosciences Node on March 18
- Participation in Fourth China-U.S. Roundtable Meeting on Scientific Data Cooperation, March 29-30, 2010
- Participation in Global Lunar Conference, Beijing, May 31-June 3, 2010
 - Ray Arvidson is one of three co-organizers
 - ~400 presentations submitted
 - Papers to be presented by Geosciences Node members Arvidson, Stein, and Jue Wang