

HMI and AIA E/PO Report
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1. **Solar Sudden Ionospheric Disturbance Monitor (SID & AWESOME) Project** *(jointly funded by NSF's CISM program and NASA's MDI instrument on SOHO)*
A parts shortage has pushed back the delivery schedule for SID boards to mid-March. We are desperately seeking other suppliers, but have found none yet. Two of the research-quality AWESOME monitors will be delivered to us in late Feb-early March. One of these, along with 2 SID monitors, will be installed at GSFC shortly thereafter.

We have made contact with a non-profit group that would like to assist us in placing monitors in Tanzania, Ladakh (little Tibet), and India. We have met with one of their representatives and are being put in contact with schools in those areas. The interest in having the monitors seems very high!

We're preparing a poster on the SID project to be presented at the IHY Science Workshop in mid-February. We're also preparing a presentation on our SID partnership for the spring AGU.

2. **Challenge Learning Center Collaboration**
The SAO contingent of the AIA instrument E/PO team continues its work on developing a new Challenger Learning Center (CLC) module on Space Weather. The module is expected to be in place at CLCs nationwide in two years. Because of the high cost of module development, the SDO team is looking for additional sources of funding. SDO is arranging a presentation to NASA by Ed Deluca and Bruce Ward from SAO to highlight the program and tour a CLC session.
3. **Science Fellow Service Learning Program** *(Partnership with Stanford Solar Center, Montana State University, and Stanford's Haas Center for Public Service.)*
In Montana, the Space Public Outreach Team (SPOT) program resumed operations for the spring semester. We gathered reports from MSU and UM students who gave presentations to school groups over the winter holiday break, and received evaluation forms from several of the teachers whose classes were addressed. Since the beginning of AIA support, approximately 700 students have seen SPOT presentations at their schools. In the coming weeks, the evaluations will be submitted to our doctoral student in charge of assessing the program.

A meeting of the entire MSU SPOT team was assembled to notify them of upcoming changes in the presentation materials, owing to the new returns from Cassini and Huygens.

Several of the SPOT students participated in a mass-mailing effort to advertise the SPOT program, and other opportunities presented by the Montana Space Grant Consortium. 1900 envelopes were stuffed with brochures about SPOT, MSGC, and Cosmic Questions (see below), and mailed to math and science teachers across the state.

The MSU EPO team is helping the Museum of the Rockies (MoR) with its hosting of the Cosmic Questions exhibit, developed at the Harvard-Smithsonian Center for Astrophysics. MoR will host the exhibit between February and September, 2005, and will give free admission to many high school students from across the state of Montana. The MSU EPO team is helping to locate "talking heads" to assist at the museum, helping to train the MoR docents in background space science, and helping to advertise the opportunity--including the possibility of financial assistance--to schools across the state.

At Stanford, about 20 students and faculty participated in a full day workshop on "Effective Science Outreach: Ideas and Methods in Teaching Science", given by Dr. Cheryl Lynn Morrow. The workshop provided an introduction to the ideas and methods of science education and public outreach through discussion, activities, and culminated in an example kinesthetic lesson on the reasons for the seasons. We are looking into the possibilities for repeating the workshop at Montana as well.

4. Website Receives Further Awards, and Facelift

The Stanford Solar Center website (<http://solar-center.stanford.edu>) recently received 2 additional awards: one as an Exploratorium "Cool Site" (yet again) and the other a review and award in Worldstart.com (read the review at <http://www.worldstart.com/tips/tips.php/1383>). The website was also recently featured in two other educational online sites. Curiously, the area most frequently receiving notoriety was our "Solar Folklore" section (<http://solar-center.stanford.edu/folklore>). Given the renewed interest in the site, we undertook a small faceleft. The site now sports our new Solar Center logo as well as improved navigation, layout, and coverage of our more recent projects. We've enhanced the Ancient Observatories page a bit and have negotiated with several artists to highlight their work based on MDI data (for example, see <http://solar-center.stanford.edu/art/lausten.html>). Although the site was originally developed with funds from the MDI program of SOHO, we felt that the site could and should be renovated to also represent the SDO mission. We will look into expanding the site further.

5. Solar Planetarium Program for Interactive and/or Portable Planetariums

The Lawrence Hall of Science has created a draft script for the Sun show and have planned a testing schedule that integrates well with their public program schedule:

Mid July, 2005: Local Trials -- Sun Show will be presented as public show at LHS

Late summer, 2005: National Trials -- LHS and Stanford team members will refine the show and prepare script and show for national testing

Fall, 2005: For the National Trials, the Sun Show will be distributed to planetariums recruited through Dome-L

Spring, 2006: Incorporate feedback from national trials and revise show

Spring, 2006: Release and distribute show, in conjunction with Learning Technologies