



## 2005 SORCE Science Meeting Final Agenda –

### Pre-Registration deadline extended to Sept. 2

There is still time to join the 2005 SORCE Science Meeting – *Paleo Connections Between the Sun, Climate, and Culture*. The pre-registration deadline (discounted fee of \$160) has been extended to Friday, **September 2**.

The meeting is September 14-16 in Durango, Colorado and full details are available at:

<http://lasp.colorado.edu/sorce/2005ScienceMeeting/>. The science program description, full agenda, abstracts, special event information, on-line registration forms, as well as logistical information is available on the website.

### Final Meeting Agenda (as of 8/22/05)

#### Tuesday, Sept. 13

##### 1:30 p.m. Special Session for Gary Rottman

**Everyone is welcome to attend! Speakers include:**

- ▶ George Mount, Washington State University, Pullman
- ▶ Jim Klimchuk, Naval Research Lab, Washington, DC
- ▶ Don Hassler, Southwest Research Institute, Boulder, Colorado
- ▶ Lika Guhathakurta, NASA Headquarters, Washington, DC
- ▶ Skip Reber, NASA GSFC, Greenbelt, Maryland
- ▶ Bob Cahalan, NASA GSFC, Greenbelt, Maryland

##### 5:30 p.m. Welcoming Reception

#### Wednesday, Sept. 14

##### 8:30 a.m. Welcome/Keynote Talk

**Judith Lean** -- Naval Research Lab, Washington, DC  
*Secular Change in the Sun-Earth System*

##### Session 1. SORCE Observations of Solar Radiation – New Science Results

- ▶ **Gary Rottman**, *Overview of the SORCE Mission*
- ▶ **Greg Kopp**, *Total Irradiance Monitor (TIM): New Results for TSI*
- ▶ **Jerry Harder**, *Solar Spectral Irradiance Variability Comparisons of the SORCE SIM Instrument with Monitors of Solar Activity and Spectral Synthesis*
- ▶ **Bill McClintock**, *Solar Variability in the Ultraviolet – SORCE SOLSTICE Observations*



Aspen trees in the fall outside of Durango.

- ▶ **Tom Woods**, *Flare Variability of the Solar XUV Irradiance from the SORCE XPS*
- ▶ **Rodney Viereck**, *NOAA Observations of Solar Irradiance*
- ▶ **Jim Butler**, *TSI Validation*

##### Session 2. Reconstructions of Past Solar Irradiance and Modeled Climate Responses

- ▶ **Natalie Krivova**, *Irradiance Reconstructions – Evolution of Sources*
- ▶ **Sami Solanki**, *Past Levels of Solar Activity and Irradiance*
- ▶ **Caspar Ammann**, *Isolating a Solar Fingerprint in Climate of the Last Millennium*
- ▶ **Drew Shindell**, *Present Day and Historical Response to Solar Forcing in the Fully Coupled Chemistry-Climate GISS ModelE*
- ▶ **Kunihiko Kodera**, *Solar Influence on Troposphere through Stratospheric Dynamical Processes*
- ▶ **Katja Matthes**, *Solar Induced Stratospheric Effects*

##### 4:00 p.m. Poster Sessions/Reception

###### Poster Session 1. Solar Variability

- ▶ **Aden & Marjorie Meinel**, *Connecting Inferred Solar Microvariability over the Past 200ky with Observed*

*Microvariability of 582 Solar-Class Stars from the ESA Hipparcos Program*

- ▶ **Eun-Hee Lee**, *On the Duration of the Spöerer Minimum*
- ▶ **Phil Judge**, *What was the Probable State of the Solar Chromosphere and Corona during the Maunder Minimum?*
- ▶ **Jeffrey Hall**, *Cyclic and Secular Activity Changes in Solar Analog Stars*
- ▶ **Peter Fox**, *Variability and Redundancy across the Solar Spectrum*
- ▶ **Juan Fontenla**, *Spectral Irradiance Modeling and Long-Term Trends*
- ▶ **David Dunham**, *Accuracy of Solar Radius Determinations from Solar Eclipse Observations, and Comparison with SDS and SOHO Data*
- ▶ **Rock Bush**, *Observing the Solar Photosphere from Space using the MDI and HMI Instruments*
- ▶ **Guoyong Wen**, *Empirical Orthogonal Function Analysis of Observed and Modeled Solar Spectral Irradiances*
- ▶ **Larry Puga**, *The NOAA MgII Core-to-Wing Ratio*
- ▶ **Marty Snow**, *SORCE SOLSTICE High-Time Cadence Magnesium II Observations*
- ▶ **Marty Snow**, *Absolute Calibration of SORCE SOLSTICE*
- ▶ **Chris Pankratz**, *SORCE Data Processing and Data Products*

Poster Session 2. Sun–Climate

- ▶ **Dan Yeloff**, *The Fossil Record of UV-B in Juncus Seeds and the Relation with Climate Change*
- ▶ **E. J. Zita**, *A Model for Investigating Sun-Climate Questions*
- ▶ **BaiMing**, *Climate Change and the Expansion of the Northeast China Culture after 960 BC*
- ▶ **David Gregory**, *Solar Variability, Climate, and Human Response: A view from the Southwest*
- ▶ **Ming Chen**, *A Climatological Spectral Study for Diagnosing the Solar 11-Year Signal in the Northern Hemisphere Atmosphere*
- ▶ **Saumitra Mukherjee**, *Cosmic Influence on Environment of the Earth*
- ▶ **Aden & Marjorie Meinel**, *Connecting the Inverse Correlation between  $^{10}\text{Be}$  and GRIP Temperature and Snowfall Accumulation over the Past 200 Ky with Relevance to the Variation of  $^{10}\text{Be}$  during the past 80 Ky and to the 40-Ky BP Surge*



Although never completed, Sun Temple in Mesa Verde National Park reflects a great construction effort by the people who once lived there. In the SW corner is an eroded stone with three small indentations that may have served as a sun dial to mark the change of seasons.

**Thursday, Sept. 15**

**8:30 a.m. Keynote Talk**

**Peter deMenocal** – Lamont-Doherty Earth Observatory, Columbia University, New York

*Late Holocene Variability of Atlantic Surface and Deep Ocean Circulation: Amplitudes and Cultural Impacts*

**Session 3. Evidence for Climate Response to Solar Variability**

- ▶ **Harry van Loon**, *A Probable Influence in the Pacific Ocean of the Decadal Solar Oscillation*
- ▶ **Curt Stager**, *Solar Variability and Rainfall at Lake Victoria, East Africa, During the Last Millennium*
- ▶ **Subarna Bhattacharyya**, *Evidence for Strong Links between Indian Rainfall and Solar Activity*
- ▶ **Ashish Sinha**, *Possible Solar Forcing of Late Holocene Mega-Droughts in India*
- ▶ **Paul Mayewski**, *Solar Forcing of the Polar Atmosphere*
- ▶ **Charles Perry**, *Solar Activity, Ocean/Atmospheric Processes, and Mississippi River Flow*
- ▶ **Alexander Ruzmaikin**, *Signals from the Nile River*
- ▶ **David Lund**, *Gulf Stream Salinity Variability during the Last Millennium*

**Session 4. Interpreting the Solar and Climate Sources of Cosmogenic Isotope Variations, and their Relationship to Solar Irradiance**

- ▶ **Monika Korte**, *Long-Term Changes in the Geomagnetic Field*
- ▶ **Catherine Constable**, *Prospects for Resolving Short-term Variations in the Paleomagnetic Dipole Moment*
- ▶ **Horst Fichtner**, *Cosmic Ray Modulation and its Significance for Extraterrestrial Climate Driving*
- ▶ **Raimund Muscheler**, *Solar Sources of Cosmogenic Isotope Variations*

► **Christy Field**, *Climate and Production-Related Impacts on Beryllium-10*

**5:00 p.m. Center of Southwest Studies Tour and Reception**

**7:30 p.m. Science Dinner, Strater Hotel**

**Dr. Mark Varien** – Crow Canyon Archeological Center, Cortez, Colorado

*Modeling of Historical Ecology – Seven Centuries of Pueblo Indian Settlement in the Mesa Verde Region*

### **Friday, Sept. 16**

**8:30 a.m. Talk in honor of Gerard Bond**

**Scott Lehman** – University of Colorado, Boulder  
*Response of Norwegian Sea Surface and Air Temperature to Solar Forcing; A Tribute to the “Persistence” of Gerard Bond*

### **Session 5: Linkages of Climate Cultural Responses and Solar Variability**

► **Ray Bradley**, *Has Solar Forcing Been an Important Influence on Climate in the Late Holocene?*

► **Bas van Geel**, *The Sun, Climate Change and the Expansion of the Scythians after 850 BC*

► **Sultan Hameed**, *Prolonged Drought in Northern China During the Maunder Minimum and Its Relation to Peasant Rebellions and Fall of the Ming Dynasty*

► **Connie Woodhouse**, *Impacts of Drought: Water Resources in the Colorado River Basin*

► **Joan Feynman**, *Solar Forcing, Climate Change and the Invention of Agriculture*

**11:30 a.m. Meeting Overview**

**12:00 noon Adjourn**

**1:30 p.m. Mesa Verde Tour departs**

**132,702**

**Hits to the SORCE Website**

*(Since 4/21/03, As of 8/19/05)*



***Upcoming Meetings / Talks – SORCE scientists plan to present papers or attend the following 2005 meetings:***

IAMAS 9<sup>th</sup> Scientific Assembly, August 2-11, Beijing, China

Characterization and Radiometric Calibration for Remote Sensing, August 23-25, Logan, Utah

SORCE Science Meeting, September 14-16, Durango, Colorado

NASA Solar and Space Physics and the Vision for Space Exploration Conference, October 16-20, Wintergreen, Virginia

NEWRAD 2005: 9<sup>th</sup> International Conference on New Developments and Applications in Optical Radiometry, October 17-19, Davos, Switzerland

AGU Fall Meeting, Dec. 5-9, San Francisco, California

**To submit information to this newsletter, please contact: [vanessa.george@lasp.colorado.edu](mailto:vanessa.george@lasp.colorado.edu).**