



2005 SORCE Science Meeting Call for Papers –

Abstract Deadline – August 1
Registration / Lodging Deadline – August 12

Everyone is invited to attend the 3rd Annual SORCE Science Meeting – *Paleo Connections Between the Sun, Climate, and Culture* – as we vastly extend the time domain to paleoclimate and very long-term changes in the solar output. This science meeting will concentrate on both the empirical evidence and physical processes that link the sun, climate, and culture in the distant past. Sessions include:

- Evidence for long-term solar activity and reconstructions of past solar irradiance
- Evidence for climate responses to solar variability, and cultural impacts
- Interpreting the solar and climate sources of cosmogenic isotope variations, and their relationship to solar irradiance
- Physical processes linking climate, cultural responses, and solar variability.

The meeting will take place at the Doubletree Hotel, **September 14-16**, in **Durango, Colorado**, a town rich in history, beauty, and southwest culture. The fall is always a very special time in this area, as the aspen leaves put on their annual performance. Please make hotel reservations early!

Complete meeting information is available at – <http://lasp.colorado.edu/sorce/2005ScienceMeeting/>, where you will find a detailed science program description, online abstract and registration forms, as well as lodging and other logistical information. We encourage your participation and hope that you will share this announcement with colleagues. Between the great science program and interesting special events, you won't want to miss this SORCE Meeting!

Tentative Agenda

Tuesdays, Sept. 13

- 1:30 p.m. ***Special Session for Gary Rottman***
5:30 p.m. ***Kick-Off Reception***

Wednesday, September 14

- 8:30 a.m. ***Welcome***
8:40 a.m. ***Keynote Lecture***



The San Juan Mountains in the fall outside of Durango.

- 9:15 a.m. ***Session 1*** – Solar Radiation – Status of current SORCE measurements
1:00 p.m. ***Session 2*** – Evidence for long-term solar activity and reconstructions of past solar irradiance
3:30 p.m. ***Poster Session*** Briefing / Reception

Thursday, September 15

- 8:30 a.m. ***Keynote Lecture***
9:05 a.m. ***Session 3*** – Evidence for climate responses to solar variability, and cultural impacts
1:30 p.m. ***Session 4*** – Interpreting the solar and climate sources of cosmogenic isotope variations, and their relationship to solar irradiance
5:15 p.m. ***Center of Southwest Studies Museum*** – Museum Gallery Tour, Talk, and Reception
7:45 p.m. ***SORCE Meeting Science Dinner*** – Strater Hotel

Friday, September 16

8:00 a.m. **Keynote Lecture**

8:35 a.m. **Session 5** – Physical processes linking climate, cultural responses and solar variability

12:00 p.m. Adjourn

1:30 p.m. **Field Trip** – Mesa Verde National Park

Confirmed speakers as of 5/20/05 include:

(As the science program develops, confirmed speakers and abstracts will be posted to the **SORCE** meeting website.)

Wednesday, Sept. 14

Judith Lean, Naval Research Lab, Washington, DC
(Secular change in the Sun-Earth system)

Gary Rottman, LASP, University of Colorado
(SORCE overview)

Jim Butler, NASA, EOS Calibration
(Update/Overview of TSI discrepancy)

Sami Solanki, Max-Planck-Institute fuer Aeronomie, Germany
(Past levels of solar activity and irradiance)

Natalie Krivova, Max-Planck-Institute fuer Sonnensystemforschung, Germany
(Irradiance reconstructions – evolution of sources)

Thursday, Sept. 15

Peter deMenocal, Lamont-Doherty Earth Observatory, Columbia University, NY
(Climate and culture)

Paul Mayewski, University of Maine
(Ice cores)

Bas van Geel, University of Amsterdam
(Peat deposits)

Curt Stager, Paul Smith's College, NY
(East Africa rainfall)

Harry van Loon, NorthWest Research Associates, CO
(Solar variability and rainfall)

Gerard Bond, Lamont-Doherty Earth Observatory, Columbia University, NY
(Sun-climate: pros and cons)

Raimund Muscheler, NCAR, Boulder, CO
(Solar sources of cosmogenic isotope variations)

Horst Fichtner, Ruhr-Universität Bochum, Germany
(Heliospheric cosmic ray modulation)

Monika Korte, GeoForschungsZentrum Potsdam, Germany
(Long-term changes in geomagnetic field)

Christy Field, GISS NASA, Columbia University
(Climate and solar sources of variability in cosmogenic isotope records)

Friday, Sept. 16

Jeff Kiehl, NCAR, Boulder, CO
(Long-term climate change)

Ray Bradley, University of Massachusetts
(Sun, climate, and culture)

Connie Woodhouse, NOAA, Paleoclimatology, CO
(Culture impacts of drought)

Kunihiko Kodera, Meteorological Research Institute, Tsukuba, Japan
(Stratospheric dynamical effects)

Katja Matthes, Freie Universität Berlin and NCAR
(Solar induced stratospheric effects)

Also scheduled are updates on **SORCE** observations and future solar monitoring by:

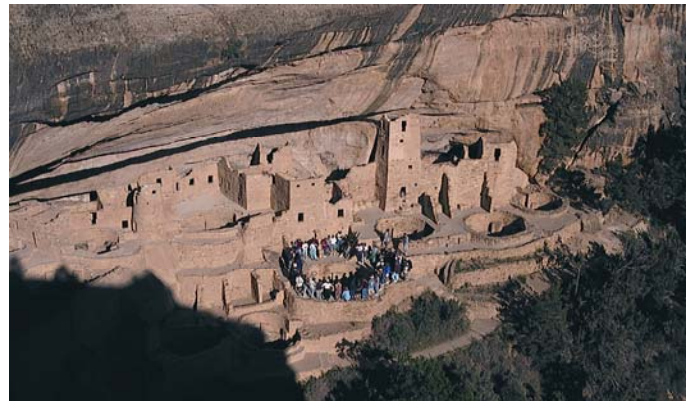
Jerry Harder, LASP, University of Colorado
(VIS-IR / SIM instrument overview)

Greg Kopp, LASP, University of Colorado
(TSI / TIM instrument overview)

Bill McClintock, LASP, University of Colorado
(UV / SOLSTICE instrument overview)

Rodney Viereck, NOAA, SEC, Boulder, CO
(NOAA solar monitoring status)

Tom Woods, LASP, University of Colorado
(XPS instrument overview)



An overhead view of the Mesa Verde National Park “cliff dwellings”. The archeological sites found in this National Park (just outside of Durango) are some of the most notable and best preserved in the United States. From approximately A.D. 600 through A.D. 1300 people lived and flourished in the area. In the late 1200s within the span of one or two generations, they left their homes and moved away. Perhaps this **SORCE** Meeting will touch on some possible reasons.

Special Session for Gary Rottman

1:30 p.m., Tuesday, September 13

Just prior to the **SORCE** Science Meeting in Durango there will be a special session in honor of Gary's upcoming retirement. This will be a time to share science and personal experiences in working with Gary. Everyone is welcome! More information on this event is available on the **SORCE** Meeting website.

Upcoming Meetings / Talks –

SORCE scientists plan to present papers or attend the following 2005 meetings:

AGU Spring Meeting / AAS Solar Physics Division,
May 23-27, New Orleans, Louisiana
ISSI Workshop on Solar Variability and Planetary
Climates, June 6-10, Bern, Switzerland
Solar Variability and Earth Climate Symposium,
June 27-July 1, Monte Porzio Catone (Rome), Italy
TSI Calibration Workshop, July,
NIST, Gaithersburg, Maryland
SPIE, July 31-August 3, San Diego, California
IAMAS 9th 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

**To submit information to this newsletter, please contact:
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Hits to the SORCE Website

(Since 4/21/03, As of 5/16/05)