

SNS • **SORCE News Source**



Solar Radiation and Climate Experiment Monthly Newsletter

April 2005

Paleo Connections Between the Sun, Climate, and Culture –

**2005 SORCE Science Meeting
September 14-16
Durango, Colorado**

Everyone is welcome to the 2005 meeting as we vastly extend the time domain to paleoclimate and very long-term changes in the solar output.

Tentative Agenda

Tuesdays, Sept. 13

5:30 p.m. **Kick-Off Reception** for the 3rd Annual SORCE Meeting

Wednesday, September 14

8:30 a.m. **Session 1 – Solar Radiation – Status of current SORCE measurements**

12:00 p.m. Lunch

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. **Session 3 – Evidence for climate responses to solar variability, and cultural impacts**

12:00 p.m. Lunch on your own

1:30 p.m. **Session 4 – Interpreting the solar and climate sources of cosmogenic isotope variations, and their relationship to solar irradiance**

5:00 p.m. **Center of Southwest Studies Museum, Fort Lewis College** – Museum Galleries Tour, Talk, and Reception

7:00 p.m. **SORCE Meeting Science Dinner** – Strater Hotel, Special Guest Speaker

Friday, September 16

8:00 a.m. **Session 5 – Physical processes linking climate, cultural responses and solar variability**

12:00 p.m. Adjourn

1:30 p.m. **Field Trip to Mesa Verde National Park**. Optional special event lead by Dick White and National Park staff. Dinner at Far View Lodge in the Park.



The San Juan Mountains in the fall outside of Durango.

Confirmed speakers as of 4/22/05 include:

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

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

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

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

Paul Mayewski, University of Maine
(Ice cores)

Bas van Geel, University of Amsterdam
(Peat deposits)

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

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

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

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)

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

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

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

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

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

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

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

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

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

The meeting will be held at the Doubletree Durango Hotel. Besides a very exciting science program, the changing aspen leaves should be spectacular at this time of year! Additional information will be posted on the **SORCE** webpage as it becomes available -- <http://lasp.colorado.edu/sorce/meetings.html>. The call for abstracts and registration materials will be coming out in mid May. The abstract/pre-registration deadline is August 1. Join us!

106,517

Hits to the **SORCE Website**

(Since 4/21/03, As of 4/18/05)

SORCE Principal Investigator Receives CU Stearns Award

Gary Rottman has been awarded the Robert L. Stearns Award for 2005. The award recognizes outstanding members of the current CU-Boulder faculty and staff. As noted in his nomination letter "During his long career at LASP, Dr. Rottman has been responsible for raising to the highest levels, LASP's standards for space instrument and design, fabrication, and calibration and for developing the University's ability to support space research programs." Congratulations Gary!

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!

Randy Meisner Joins **SORCE** Data Processing Team

The newest member of the LASP Mission Operations & Information Systems Division is Randy Meisner. As of April 1, Randy began providing support to the **SORCE** mission under the direction of Chris Pankratz. Once up to speed he will be supporting the production, calibration, verification, management, analysis, and distribution of **SORCE** scientific data products. This involves the development and maintenance of data processing and analysis code; management of routine data processing and reprocessing activities; analysis of engineering and science data; and maintenance of instrument calibration data sets.

Randy's previous experience at the High Altitude Observatory at NCAR ties directly into what he is doing for **SORCE**. He started at HAO as a student, and began working there full-time processing solar measurements in 1997. He remained at HAO until joining LASP. The **SORCE** mission is very familiar to Randy as he has followed **SORCE**'s progress since before the 2003 launch, and he has attended several of the past **SORCE** science meetings.

His knowledge and experience will improve the quality of the **SORCE** data products, as well as reduce

delivery times. Randy graduated from the University of Colorado, where he earned his Bachelor of Science degree in Boulder and his Masters degree in Denver.



In recent free time, Randy and his wife have been remodeling their new home in Arvada. They both grew up in this neighborhood and are very excited about being able to return to be near family. Their two sons, ages 4 and 7, enjoy helping dad with the on-going home improvement projects. One item on the list is to build the perfect music room to accommodate Randy's love of playing the drums.

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:
vanessa.george@lasp.colorado.edu.**



- [Overview/Introduction](#)
- [Background, History, Perspective](#)
- [Objectives](#)
- [Data Product Summary](#)
- [Meetings](#)
- [Presentations & Publications](#)
- [Science Operations](#)
- [SORCE ATBD](#)
- [Science Team](#)

- [Data Product Summary](#)
- [TSI Data](#)
- [SSI Data](#)

- [Overview](#)
- [TIM](#)
- [SIM](#)
- [SOLSTICE](#)
- [XPS](#)

- [Overview/Introduction](#)
- [Satellite Tracking](#)
- [Satellite Sighting Opportunities](#)

- [Mission Objectives](#)
- [Launch](#)
- [Mission Operations](#)
- [Animations & Video](#)
- [Photo Gallery](#)
- [Weekly Status Reports](#)

- [Education & Outreach](#)
- [Images & Videos](#)
- [Classroom Experiments](#)
- [Student Q&A](#)
- [SORCE Fact Sheet](#)
- [SORCE Summary & Image](#)
- [SORCE Quick Facts](#)

- [News Updates](#)
- [Meetings](#)
- [SORCE Newsletter](#)
- [SORCE Science Writer's Guide](#)
- [SORCE Fact Sheet](#)
- [SORCE Summary & Image](#)
- [SORCE Quick Facts](#)
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[Home](#) [Science](#) [Data](#) [Instruments](#) [Spacecraft](#) [Mission](#) [Education & Outreach](#) [News & Events](#) [Reference](#)

Meetings

[News Updates](#)
[Meetings](#)
[SORCE Newsletter](#)
[Science Writer's Guide](#)
[Sorcel Fact Sheet](#)
[Summary & Image](#)
[Weekly Status Reports](#)

Future SORCE Meetings

- [September 14-16, 2005, Durango, Colorado](#)

Past SORCE Meetings

- [October 2004 SORCE Science Meeting, Oct. 27-29, Meredith, NH](#)
- [December 2003 SORCE Science Meeting, Dec. 4-6, Sonoma, CA](#)
- [July 2002 SORCE Science Meeting, July 17-19, Steamboat Springs, CO](#)

Other Upcoming Meetings

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

- [Space Weather Week, April 5-8, Broomfield, Colorado](#)
- [AGU Spring Meeting / AAS Solar Physics Division, May 23-27, New Orleans, Louisiana](#)
- [Solar Variability and Earth Climate, June 27 - July 1 Monte Porzio Catone \(Rome\), Italy](#)
- [IAGA General Assembly / IUGG, July 18-29, Toulouse, France](#)
- [SPIE, July 31 - August 3, San Diego, California](#)
- [Characterization and Radiometric Calibration for Remote Sensing, August 23-25, Logan, Utah](#)
- [SORCE Science Meeting, Sept. 14-16, Durango, Colorado](#)

