SNS • SORCE News Source

Solar Radiation and Climate Experiment Monthly Newsletter **August 2004**

SORCE Receives "NASA Group Achievement Award" –

Gary Rottman, SORCE Principal Investigator, accepted the "NASA Group Achievement Award" on behalf of the SORCE Mission Team on Tuesday, August 24th. This award is presented to a group in recognition of an outstanding accomplishment which has been made through the coordination of many individual efforts and has contributed substantially to the accomplishment of the mission of NASA. The NASA Honor Awards Ceremony was held in Greenbelt, Maryland.

SORCE Program Manager, Tom Sparn, received NASA's Public Service Award in recognition of his outstanding leadership and distinguished contributions to the SORCE Mission. This medal is awarded to a U.S. citizen who is not a federal government employee, for exceptional contributions to NASA's mission. Tom has worked on the SORCE mission from the beginning in 1997, and has been extremely valuable in seeing it to fruition.

These awards coincidently come after eighteen months of successful operation on-orbit, which is a crucial milestone for SORCE because this is the criterion point NASA uses to determine mission success. SORCE has been on-orbit long enough to have obtained scientific success by collecting continuous TSI and SSI measurements. At LASP, plans to acknowledge and celebrate these special NASA accomplishments are in the works.

Gary with the NASA Group Achievement Award.

Tom Sparn, SORCE Program Manager; Bill Ochs, SORCE Project Manager (former), and Gary Rottman, SORCE Principal Investigator receiving the NASA Group Achievement Award on behalf of the SORCE Mission Team.

2004 SORCE Science Meeting – **Abstracts Due Sept. 10th**

Discerning the role of the Sun in climate variations on time scales of decades is a challenging task, and this SORCE Meeting – ***Decadal Variability in the Sun and Climate*** – seeks new understanding of the evidence for and mechanisms involved in decadal variability in the Sun and climate.

This meeting is set for October 27-29 in Meredith, New Hampshire. We encourage your participation and hope that you will share this announcement with colleagues. Meeting information is available at **http://lasp.colorado.edu/sorce/2004ScienceMeeting/meeting.html**, where you will find a detailed science program description, online abstract and registration forms, as well as lodging and other logistical information.

The agenda will consist of both invited and contributed oral presentations and posters. Complete abstract submittal information is available on the website. Abstracts are due **September 10**, and the registration and lodging deadline is **September 24.**

65,229

Hits to the SORCE Website

(Since 4/21/03, As of 8/23/04)

Church Landing at *The Inns at Mill Falls* (http://www.millfalls.com/) is the location of the 2004 SORCE Science Meeting. Lodging information for Church Landing and the other two guestroom facilities at *The Inns at Mill Falls* is available on the SORCE meeting website. Make your reservations at this popular resort village soon – it will fill quickly.

Meeting Agenda / Speakers (as of Aug. 20th)

Tuesday, Oct. 26

Welcoming Reception

Wednesday, Oct. 27

Keynote Talk

Mark Baldwin – Northwest Research Associates., Bellevue, WA
The Stratospheric Link Between the Sun and Climate

Session 1. Solar Radiation – Status of Current SORCE Measurements

► Gary Rottman – LASP, University of Colorado, Boulder
The SORCE Mission – Going on Two Years
► Greg Kopp – LASP, Univ. of Colorado, Boulder
TIM Status and Contributions to the Total Solar Irradiance Record
► Jerry Harder – LASP, Univ. of Colorado, Boulder
The SORCE SIM Instrument: Progress Toward Spectral Irradiance Time Series Throughout the 300-3000 nm Region
► Bill McClintock – LASP, Univ. of Colorado, Boulder
Solar Ultraviolet Spectral Irradiance: Results from the SORCE SOLSTICE
► Tom Woods – LASP, Univ. of Colorado, Boulder
Variability of the Solar XUV Irradiance from the SORCE XPS

Session 2. Decadal Variability in the Atmosphere and Oceans

► David Douglass – University of Rochester, NY
(Title to come)
► Peter Thejll and Hans Gleisner – Danish Meteorological Institute
Modulation of Tropospheric Circulation Regimes by Solar Variability
► Lesley Gray – Reading University, UK
Variability of the Winter Stratospheric Vortex Associated with the 11-Year Solar Cycle
► John McCormack – NRL, Washington, DC
The Effect of Decadal Solar UV Variability on the Middle Atmosphere: A 2-D Modeling Perspective

Poster Viewing / Reception

Thursday, Oct. 28

Keynote Talk

Vikram Mehta – CRCES, Columbia, MD
Decadal Climate Variability – Societal Impacts, Phenomena, Problems, and Prospects

Session 3. Mechanisms and Modes of Decadal Solar Variability

► Tom Berger, Lockheed Martin, Palo Alto, CA
High Resolution Observations of Solar Faculae
► Peter Foukal, Heliophysics, Inc., Nahant, MA
What Decadal Irradiance Variations Teach Us about the Likelihood of Multi-Decadal Variations
► Ken Schatten, a.i. solutions, Lanham, MD
The Nature of Sunspots and Faculae: Fluid Dynamics vs. Magnetic Inhibition
► Stephen Walton, CSUN, San Fernando Observatory, Northridge, CA
What Photometric Images Have (and Haven't) Taught Us about TSI

Session 4. Climate Variability Modes (e.g. ENSO, NAO/AO, PDO) and Nonlinear Responses

► Mark Cane, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY
Volcanic and Solar Forcing of the Tropical Pacific Over the Past 1000 Years
► Amy Clement, University of Miami, FL
The El Niño/Southern Oscillation: Mechanisms and Impacts
► Michael Mann, University of Virginia, Charlottesville
Dynamical Mechanisms of Solar Climate Forcing in Past Centuries
► Dave Thompson, Colorado State University, Fort Collins
On the Dynamics of Stratosphere / Troposphere Coupling

Science Dinner

Dan Schrag – Harvard University, Cambridge, MA
Snowball Earth and Other Climate Tales of Earth and Her Neighbors

Friday, Oct. 29

Keynote Talk

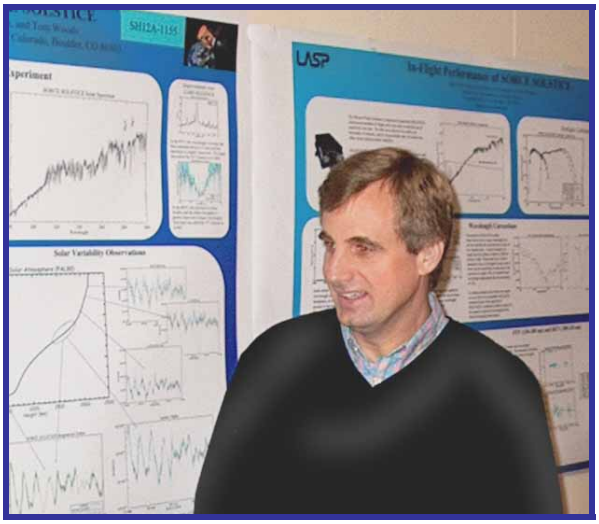
Madeleine Nash – Independent News Writer, San Francisco, CA
Chasing El Niño: A Science Writer's Walk on the Wild Side of Climate

Session 4 continued: Climate Variability Modes (e.g. ENSO, NAO/AO, PDO) and Nonlinear Response
► Jose Rial, University of North Carolina, Chapel Hill
Nonlinearities in the Climate of the Last Ice Age: The Origin of the D-O Oscillations

Meeting Overview and Panel Discussion

Peter Pilewskie Joins CU –

Dr. Peter Pilewskie, a SORCE co-investigator since 1999, joined the University of Colorado this month. In addition to working with LASP scientists who are interpreting the SORCE science results, he is on the faculty of PAOS (Program in Atmospheric and Oceanic Sciences), teaching on the main Boulder campus. This semester he is teaching Radiative Processes, a PAOS/APS graduate course.



SORCE Co-Investigator, Peter Pilewskie, looks over the SORCE Mission posters at the 2003 SORCE Science Meeting in Sonoma, California.

Before joining CU, Peter had been with NASA Ames Research Center in Moffett Field, California for the past 15 years. At the same time, he has been lecturing at San Jose State University in their Department of Meteorology. Prior to joining NASA he was a Research Assistant at the University of Arizona, where he earned his master and doctorate degrees in Atmospheric Science.

Peter has been extremely valuable to the SORCE mission, providing special expertise on radiative processes in our atmosphere. His fellow co-investigators at LASP are very excited about his move to Boulder. Peter say, “I could not be happier about joining CU. I am thrilled with the opportunity to work in a world-class research and teaching environment and we love the Boulder community.” Peter’s wife and two daughters, ages 6 and 8, are also happy with their new home.

Please stop by Peter’s office on campus (Duane D-317) to welcome him.

Upcoming Meetings / Talks –

SORCE scientists plan to present papers or attend the following 2004 meetings:

SORCE Science Meeting, October 27-29,
Meredith, New Hampshire
AGU Fall Meeting, Dec. 13-17,
San Francisco, California

To submit information to this newsletter, please contact: vanessa.george@ lasp.colorado.edu.