



## 2014 Living With a Star (LWS) Science Meeting Nov. 3-6, 2014 ☀ Portland, Oregon

First Announcement, February 19, 2014

### *“Evolving Solar Activity and Its Influence on Space and Earth”*

The 2014 Living with a Star (LWS) Science Meeting will focus on advancing the understanding of the integral system coupling the Sun to the Earth. An important part of this meeting is the inclusion of the Hinode 8 meeting with complementary objectives towards improved understanding of the evolving solar activity.

The LWS program, by definition, is cross-disciplinary, and brings together the science teams from the different LWS missions and other heliophysics missions, as well as the LWS Targeted Research and Technology (TR&T) teams to connect the different disciplines. The LWS research forms a network that connects many areas of solar physics, Earth’s and other planets’ magnetospheric and atmospheric physics, Sun-climate relationships, and radiation safety for human exploration. Combining these cross-disciplinary research teams enables new understanding of the Sun and its influence on our space environment at Earth.

The sessions planned for this meeting focus on coupling throughout the heliosphere and are science themes common to many disciplines:

- Evolving Magnetic Fields, Magnetic Instabilities, Magnetic Reconnection
- Dynamics of Energetic Particles, Wave-Particle Interactions, Shocks, and Turbulence
- Evolving Coronal Mass Ejections through the Heliosphere and into Geospace
- Ion-Neutral Interactions within Earth’s Atmosphere and the Solar Atmosphere
- Energetics of Heliosphere and Magnetosphere Interactions
- Origins of Solar Magnetic Fields, Variability and Effects at Earth
- Modeling and Forecasting Space Climate and Space Weather Events



The NASA Heliophysics System Observatory (HSO) has recently grown and will continue to develop, thus providing a more complete picture of the interactions of various environments that are subject to the Sun's influence. The newest missions include the Interface Region Imaging Spectrograph (IRIS) and the Van Allen Probes, the 2<sup>nd</sup> mission in the LWS program. The other LWS mission currently in orbit is the Solar Dynamics Observatory (SDO). Data from current and past missions, such as the Hinode, RHESSI, STEREO, SOHO, ACE, THEMIS/ARTEMIS, TIMED, among many others, and future missions (BARREL, MMS, SPP, and Solar Orbiter), will be combined to pursue cross-disciplinary science goals that are broader and more complex than any single mission could address alone. These observations are supported by complementary theoretical and modeling studies that help maximize the science return from the LWS program.

The format for this meeting consists of invited and contributed presentations for oral and poster presentations. We plan to have plenary morning sessions with keynote presentations on the various coupling themes and afternoon splinter and poster sessions. We encourage your participation and hope that you will share this announcement with colleagues.

The LWS program encourages new scientists to the field and is providing limited travel support for students and post-docs, and there will be Student Awards for winning presentations.

### ***Important Deadlines:***

Abstract: August 1, 2014

Student / Post-doc Travel Application: August 1, 2014

Pre-Registration: October 3, 2014

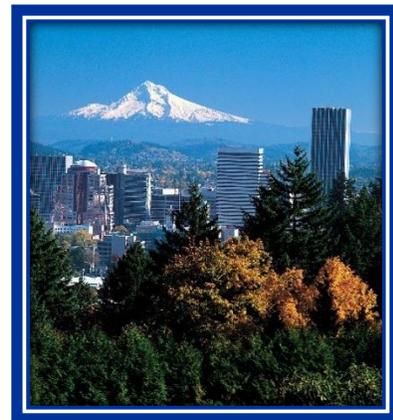
Hotel Reservation: October 3, 2014

### ***Meeting Venue:***

*DoubleTree by Hilton Portland*

1000 NE Multnomah, Portland, OR 97232

<http://www.doubletreegreen.com/>



### ***Meeting Website:***

<http://lasp.colorado.edu/home/eve/science/meetings-workshops/lws2014/>

### ***Organizing Committee:***

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