

2014 LWS Meeting Agenda / Science Program

(as of Oct. 29, 2014)

Sunday, Nov. 2

- 9:00 am – 5:00 pm **Solar-C Team Meeting** (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)
- 4:00 pm – 5:30 pm **SDO Science Working Group Meeting** (Cascade Ballroom – Mt. Hood/Mt. St. Helens)
This meeting will include presentations on the current status of the SDO spacecraft and mission, discussions of our current operational issues, and future plans and objectives.
- 5:30 pm – 7:00 pm 2014 LWS Meeting – Welcoming Reception**
DoubleTree Hotel – Pacific Northwest Ballroom, Level 1

Monday, Nov. 3

- 7:00 am **On-site Registration and Check-In Opens** (Lobby, Level 1)
- 8:15 am – 8:30 am **Welcome** (Cascade Ballroom, Level 2)
- 8:30 am – 10:15 am **Plenary Session 1a. Magnetic Energy and Field from Solar Interior to Corona and Heliosphere** (Cascade Ballroom, Level 2)
Session Chair: Todd Hoeksema, Stanford University, Stanford, CA
- 8:30 am **Viggo Hansteen**, *Energy Transport in the Transition Region and Lower Solar Corona*
- 8:50 am **Justin Kasper**, *Radial Extent of Preferential Ion Heating in the Corona and Solar Wind*
- 9:10 am **Dana Longcope**, *Magnetic Energy Storage, Release and Conversion in Solar Flares*
- 9:30 am **Hardi Peter**, *Dynamic Models of the Corona Confronted to Observations*
- 9:50 am **Amy Winebarger**, *The Heating of the Solar Atmosphere: From the bottom up?*
- 10:10 am **Open Discussion**
- 10:15 am – 10:45 am **Break**
- 10:45 am – 12:30 pm **Plenary Session 1b. Reconnection and Magnetic Instabilities in Geospace, Heliosphere, and Solar Atmosphere** (Cascade Ballroom, Level 2)
Session Chair: Karel Schrijver, Lockheed Martin, SAL, Palo Alto, CA
- 10:45 am **Kanya Kusano**, *Dynamical Petscheck Reconnection*
- 11:10 am **Gordon Holman**, *Magnetic Evolution, Reconnection and Particle Acceleration in Solar Flares: Insights from RHESSI*
- 11:35 am **Mikhail Sitnov**, *Magnetic Reconnection, Buoyancy and Flapping Motions in Magnetotail Explosions*
- 12:00 pm **Ian Mann**, *The Impacts ULF Waves on the Dynamics of the Earth's Van Allen Belts*
- 12:25 pm **Open Discussion**
- 12:30 pm – 2:00 pm **Lunch (on your own)**

- 2:00 pm – 3:45 pm **Poster Session – P1/P2 (Monday/Tuesday group)** (Lloyd Center, Level 1)
(featuring Topics 2a, 2b, and Hinode/IRIS Splinter Sessions)
- 2:00 pm – 3:45 pm **Splinter Session S-1 (4b). Heliophysics and Space Weather in the Coming Decade** (Cascade Ballroom – Mt. Hood/Mt. St. Helens, Level 2)
Session Chair: Karel Schrijver, Lockheed Martin, SAL, Palo Alto, CA
- 2:00 pm **Madhulika Guhathakurta**, *Living With a Star: Science That Matters to People – Past Accomplishments and Future Promise*
- 2:20 pm **Marco Velli**, *The Solar Probe Plus Mission and our Understanding of the Solar Wind and Heliosphere*
- 2:40 pm Mona Kessel (presented by **Shing Fung**), *Geoscience Current and Future Space Weather Plans*
- 3:00 pm **Andres Munoz-Jaramillo**, *How the Statistical Analysis of Magnetic Structures Will Help Us Usher a New Generation of Solar Cycle Predictions*
- 3:15 pm **Chigomezyo Ngwira**, *Challenges in Modeling of Extreme Space Weather Events*
- 3:30 pm **Open Discussion**
- 3:45 pm – 4:15 pm **Break**
- 4:15 pm – 6:00 pm **Splinter Session S-2 (1a). Magnetic Energy and Field from Solar Interior to Corona** (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)
Session Chair: Todd Hoeksema, Stanford University, Stanford, CA
- 4:15 pm **Shane Alpert**, *Hi-C Observations of Penumbra Bright Dots: Comparison with the IRIS Results*
- 4:30 pm **Anna Malanushenko**, *Modeling of the Coronal Magnetic Field and Plasma Heating: New frontiers in the SDO epoch*
- 4:45 pm **Sanjiv Tiwari**, *Transition-Region/Coronal Signatures of Penumbra Microjets: Hi-C, SDO/AIA and Hinode (SOT/FG) Observations*
- 5:00 pm **Iain Hannah**, *NuSTAR's First Solar Observations: Search for a high energy X-ray component to the "non-flaring" Sun*
- 5:15 pm **Mark Weber**, *A Revolution in DEM Analysis with Application to Nanoflare Heating*
- 5:30 pm **Scott McIntosh**, *Deciphering Solar Magnetic Activity: On the Relationship Between the Sunspot Cycle and the Evolution of Small Magnetic Features*
- 5:50 pm **Open Discussion**
- 4:15 pm – 6:00 pm **Splinter Session S-3 (2b). From the Sun to Earth: Turbulence and wave-particle interactions at the Sun, at the Earth, and in the solar wind** (Willamette Ballroom – Hawthorne/Sellwood, Level 1)
Session Co-Chairs: Chadi Salem and Marc Pulpupa, SSL, Univ. of California - Berkeley
- 4:15 pm **Kyoko Watanabe**, *White-Light Emission and Related Particle Acceleration Phenomena – Conditions that Enhance White-Light Emission in Solar Flares*
- 4:35 pm **Andrew Hillier**, *Investigating Prominence Turbulence with Hinode SOT Dopplergrams*
- 4:55 pm **Phil Isenberg**, *Ion Kinetics in the Solar Wind Generation Region*
- 5:15 pm **Chadi Salem**, *Kinetic Scale Turbulence in the Solar Wind: A review of current challenges*
- 5:35 pm **Allison Jaynes**, *Simultaneous ULF Waves, Whistler-mode Chorus and Pulsating Aurora Observed by the Van Allen Probes and Ground-based Imagers*
- 5:55 pm **Open Discussion**

- 4:15 pm – 6:00 pm **Splinter Session S-4 (4b). Space Weather Impacts using HSO Measurements (focus on observations)** (Cascade Ballroom – Mt. Hood/Mt. St. Helens, Level 2)
Session Chair: Andrew Jones, LASP, University of Colorado - Boulder
- 4:15 pm **Rodney Viereck**, *NOAA Space Weather Operations: Current operational models and future needs for space weather modeling*
- 4:35 pm **K. D. Leka**, *The Discriminant Analysis Flare Forecasting System ("DAFFS")*
- 4:50 pm **Paulett Liewer**, *Testing the Reliability of Far-side Active Region Predictions from Helioseismology using STEREO Far-side*
- 5:05 pm **Meng Jin**, *Global MHD Simulation of the CME on 2011 March 7: From Chromosphere to 1 AU*
- 5:20 pm **Ryan McGranaghan**, *Forecasting the Impact of Equinoctial High-Speed Stream Structures on Thermospheric Responses and an Extension to Solstitial Events*
- 5:35 pm **Open Discussion**
- 4:15 pm – 6:00 pm **Splinter Session S-5. Hinode/IRIS: Flares (outside the context of CMEs)** (Willamette Ballroom – Ross/Morrison, Level 1)
Session Chair: Sabrina Savage, NASA Marshall Space Flight Center, Huntsville, AL
- 4:15 pm **Sarah Matthews**, *Probing Energy Release & Transport in Flares – New insights from IRIS and EIS*
- 4:40 pm **George Doschek**, *Testing the Standard Flare Model with Hinode/EIS, RHESSI, and SDO/AIA Data*
- 4:55 pm **Wei Liu**, *First High-resolution Spectroscopic Observations by IRIS of a Fast Prominence Eruption Associated with a CME on 2014-May-09*
- 5:10 pm **Fatima Rubio da Costa**, *IRIS Observations of Solar Flares in Comparison with Hybrid Particle and Radiative Transfer Hydrodynamic Simulations*
- 5:25 pm **Hui Tian**, *IRIS Observations of Magnetic Reconnection and Chromospheric Evaporation in a Solar Flare*
- 5:40 pm **Jean-Pierre Wuelser**, *IRIS Observations of Plasma Heating and Dynamics in a Well-Observed M-Class Flare*
- 5:55 pm **Open Discussion**
- 6:30 pm – 8:00 pm **IRIS Team Meeting** (Willamette Ballroom – Hawthorne/Sellwood, Level 1)

Tuesday, Nov. 4

- 8:30 am – 10:15 am **Splinter Session S-6 (2a). Onset and Coronal Evolution of CMEs** (Cascade Ballroom – Mt. Hood/Mt. St. Helens, Level 2)
Session Chair: Alphonse Sterling, NASA Marshall Space Flight Center, Huntsville, AL
- 8:30 am **Ben Lynch**, *On the Initiation of Coronal Mass Ejections, Their Evolution, and Propagation into the Heliosphere: Recent progress and outstanding questions*
- 8:50 am **Jie Zhang**, *Observational Signatures of CME Initiation and Eruption: Does Flux Rope Exist Prior to the Eruption?*
- 9:10 am **Peter Schuck**, *Measuring Coronal Energy and Helicity Buildup with SDO/HMI*
- 9:23 am **Lucie Green**, *Flux Ropes: Observations of their evolution prior to eruption*
- 9:36 am **Kathy Reeves**, *Direct Observations of Reconnection Outflow and CME Triggering in a Small Solar Eruption Observed with IRIS, AIA and XRT*
- 9:49 am **Christina Kay**, *Using Deflections to Constrain the Mass of CMEs: The 12 December 2008 Case*
- 10:02 am **Open Discussion**

8:30 am – 10:15 am **Splinter Session S-7 (1b). *Reconnection and Magnetic Instabilities in Geospace and Heliosphere*** (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)
Session Chair: Sabrina Savage, NASA Marshall Space Flight Center, Huntsville, AL

8:30 am **Noé Lugaz**, *Reconnection during CME Propagation and Interaction*
8:50 am **Spiro Antiochos**, *The Role of Interchange Reconnection in CMEs/Eruptive Flares*
9:05 am **Joachim Birn**, *Modeling Substorms in the Magnetotail*
9:25 am **Tim Bastian**, *EUV and Radio Observations of an Eruptive Magnetic Flux Rope and Fast CME*
9:40 am **Tamas Gombosi**, *End-to-End Modeling of Space Weather Events with the Space Weather Modeling Framework*
9:55 am **Liang Wang**, *Integrating Kinetic Effects in Fluid Models for Magnetic Reconnection*
10:10 am **Open Discussion**

8:30 am – 10:15 am **Splinter Session S-8 (4a). *Solar Origins of Variability in the Space Environment*** (Willamette Ballroom – Ross/Morrison, Level 1)
Session Chair: Rock Bush, Stanford University, Stanford, CA

8:30 am **Rudolf Komm**, *Solar Subsurface Characteristics and Solar Activity*
8:45 am **Yusuke Iida**, *Investigation of Surface Magnetic Flux Transport by use of Hinode/SOT and SDO/HMI*
9:00 am **Markus Aschwanden**, *Progress in Measuring Coronal Magnetic Fields and Energies*
9:15 am **Amir Caspi**, *Multi-Instrument Differential Emission Measure (DEM) of the Solar Corona*
9:30 am **Frank Eparvier**, *Sub-daily EUV Irradiance Variations*
9:45 am **Richard Mewaldt**, *Variations in the Properties of Solar Energetic Particle Events over Recent Solar Cycles*
10:00 am **Open Discussion**

8:30 am – 10:15 am **Splinter Session S-9 (3b). *Energy Flow in the Magnetosphere*** (Willamette Ballroom – Hawthorne/Sellwood, Level 1)
Session Chair: Phillip Chamberlin, NASA Goddard Space Flight Center, Greenbelt, MD

8:30 am **Jacob Bortnik**, *Understanding the Effects of Data-Driven Repetitive Chorus Elements on the Scattering Characteristics of Energetic Radiation Belt Electrons*
9:00 am **Oleksiy Agapitov**, *Formation of the "Seed" Population of 1-10 keV Electrons in the Outer Van Allen Radiation Belt by Time Domain electric Field Bursts*
9:30 am **David Malaspina**, *Nonlinear Electric Field Structures at Plasma Boundaries in the Inner Magnetosphere*
9:50 am **Delores Knipp**, *Mission View of Field Aligned Currents from NASA's ST5 Spacecraft*
10:10 am **Open Discussion**

10:15 am – 10:45 am **Break**

10:45 am – 12:30 pm **Poster Session – P1/P2 (Monday/Tuesday group)** (Lloyd Center, Level 1)
(featuring Topics 4a, 4b)

12:30 pm – 2:00 pm **Lunch (on your own)**

- 2:00 pm – 3:45 pm **Plenary Session 2a. *Evolving Coronal Mass Ejections from Corona, through the Heliosphere, into Geospace*** (Cascade Ballroom, Level 2)
Session Chair: Mark Weber, Harvard-Smithsonian CfA, Cambridge, MA
- 2:00 pm **William Abbett**, *Modeling the Convection Zone-to-Corona System over Global Spatial Scales*
- 2:20 pm **Cooper Downs**, *Using Realistic MHD Models to Connect Observations of CMEs to Their Physical Underpinnings*
- 2:40 pm Rebekah Evans (presented by **Antonia Savcheva**), *The Interaction of Solar Eruptions and Large-Scale Coronal Structures Revealed Through Modeling and Observational Analysis*
- 3:00 pm **Russ Howard**, *Modeling of Coronal Mass Ejections*
- 3:20 pm **Mike Liemohn**, *Nonlinear Magnetosphere-Ionosphere Coupling in Near-Earth Space During an ICME-Driven Storm*
- 3:40 pm **Open Discussion**
- 3:45 pm – 4:15 pm **Break**
- 4:15 pm – 6:00 pm **Plenary Session 2b. *Dynamics of Energetic Particles, Wave-Particle Interactions, Shocks, Turbulence*** (Cascade Ballroom, Level 2)
Session Chair: David Malaspina, LASP, University of Colorado - Boulder
- 4:15 pm Homa Karimabadi (presented by **Vadim Roytershteyn**), *Recent Results on Kinetic Simulations of Shocks and Turbulence*
- 4:40 pm **David Lario**, *Multi-Spacecraft View of Solar Energetic Particle Events in Solar Cycle 24*
- 5:05 pm **Lynn Wilson III**, *Collisionless Shock Waves and Wave-Particle Interactions*
- 5:30 pm **Open Discussion**
- 6:30 pm – 8:00 pm **XRT Team Meeting** (Willamette Ballroom – Morrison, Level 1)

Wednesday, Nov. 5

- 8:00 am – 9:45 am **Splinter Session S-11 (3a). *Chromosphere: Dynamics, heating and ion-neutral effects*** (Willamette Ballroom – Ross/Morrison, Level 1)
Session Chair: Bart De Pontieu, Lockheed Martin, SAL, Palo Alto, CA
- 8:00 am **James Leake**, *The Role of the Chromosphere in the Energization of the Corona*
- 8:25 am **Tetsu Anan**, *Observation of Velocity Differences between Neutral Atoms and Ions in Solar Chromosphere*
- 8:40 am **Gregal Vissers**, *On the IRIS Signature of Ellerman Bombs*
- 8:55 am **Nicholas Murphy**, *Asymmetric Magnetic Reconnection in Partially Ionized Chromospheric Plasmas*
- 9:10 am **Luc Rouppe van der Voort**, *Torsional Motions and Heating in the Disk Counterparts of Spicules*
- 9:25 am **Hsiao-Hsuan Lin**, *Formation of the O I 135.56 nm and the C I 135.58 nm Lines*
- 9:40 am **Open Discussion**

- 8:00 am – 9:45 am **Splinter Session S-12 (1b). Reconnection and Magnetic Instabilities in Solar Atmosphere** (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)
Session Chair: Spiro Antiochos, NASA Goddard Space Flight Center, Greenbelt, MD
- 8:00 am **Shin Toriumi**, *Magnetic Reconnection in Emerging Active Regions*
- 8:20 am **Wei Liu**, *Correlated Quasi-periodic Fast-mode Magnetosonic Wave Trains and Flare Pulsations: Implications for Pulsed Magnetic Reconnection in the Solar Corona*
- 8:35 am **Maria Madjarska**, *IRIS Sub-Arcsecond Scale Observations of an Explosive Event*
- 8:50 am **Tibor Török**, *What Can We Learn from MHD Simulations and Observations about the Initial Phase of Solar Eruptions?*
- 9:10 am **Alphonse Sterling**, *Miniature Filament Eruptions and their Reconnections in X-Ray Jets: Evidence for a new paradigm*
- 9:25 am **Neal Hurlburt**, *A Study of Eruptions Detected by the LMSAL Eruption Patrol*
- 9:40 am **Open Discussion**
- 8:00 am – 9:45 am **Splinter Session S-13 (4a). Effects of Solar Variability at Earth** (Cascade Ballroom – Mt. Hood/Mt. St. Helens, Level 2)
Session Chair: Frank Eparvier, LASP, University of Colorado - Boulder
- 8:00 am **Stan Solomon**, *Solar Variability Impacts on Thermosphere-Ionosphere Weather and Climate*
- 8:13 am **Leonid Didkovsky**, *How Consistent are the Solar Absolute Irradiance Changes for the Two Latest Solar Cycle Minima with the SOHO/EIT and SDO/AIA Image Spatial Spectra and with the CODE TEC Sectorial Harmonic Spectra Changes*
- 8:26 am **Liyang Qian**, *Solar Flare Effects in the Thermosphere and the Ionosphere*
- 8:46 am **Jan Sojka**, *Progress in Resolving X-Class Flare E-Region Issues*
- 8:59 am **Scott Bailey**, *Influence of Solar Flare Irradiance on Nitric Oxide in the Lower Thermosphere and Ionosphere*
- 9:12 am **Justin Yonker**, *Contribution of Solar Irradiance to Ionospheric and Odd Nitrogen Chemistry*
- 9:25 am Katharine Duderstadt (presented by **Harlan Spence**), *Exploring Extreme Solar Proton Events, Their Possible Atmospheric Impacts, and Potential Paleoclimate Signatures*
- 8:00 am – 9:45 am **Splinter Session S-14 (2b). Shocks, Waves, and Turbulence: Heliospheric particle acceleration mechanisms** (Willamette Ballroom – Hawthorne/Sellwood, Level 1)
Session Chair: Marco Velli, NASA Jet Propulsion Laboratory, Pasadena, CA
- 8:00 am **Rob Decker**, *Particle Acceleration at Shocks at 1 AU and Beyond*
- 8:20 am **John Wygant**, *Van Allen Probe Observations of Electric Fields and Their Role in the Dynamics of the Inner Magnetosphere of the Earth and Energetic Particle Acceleration*
- 8:40 am **Wen Li**, *Understanding Earth's Radiation Belt Electron Dynamics and its Relation to Solar Wind Conditions*
- 9:00 am **Alexa Halford**, *BARREL Observations of a Solar Storm: The Flare, The SEP, and the CME arrival at Earth*
- 9:15 am **David Long**, *The Energetics of a Global Shock Wave in the Low Solar Corona*
- 9:30 am **Open Discussion**
- 9:45 am – 10:15 am **Break**
- 10:15 am – 12:00 pm **Poster Session – P3/P4 (Wednesday/Thursday group)** (Lloyd Center, Level 1)
(featuring Topics 1a, 1b)

- 10:15 am – 12:00 pm **Splinter Session S-15. Hinode/IRIS: Spectroscopic Mass and Energy Transfer between the Chromosphere and Corona**
(Cascade Ballroom – 3 Sisters/ Mt. Bachelor, Level 2)
Session Chair: Jonathan Cirtain, NASA Marshall Space Flight Center, Huntsville, AL
- 10:15 am **Joten Okamoto**, *IRIS-Hinode Collaborative Observations of Oscillating Prominences and Discovery of Resonant Absorption*
- 10:40 am **Patrick Antolin**, *The Multi-Thermal and Multi-Strand Nature of Coronal Rain*
- 10:55 am **Sean Brannon**, *Using IRIS to Constrain Flare Loop Properties in Simulations of Impulsive Conduction-Driven Evaporation*
- 11:10 am **Deborah Baker**, *Challenging the FIP Bias Paradigm?*
- 11:25 am **Chad Madsen**, *Investigating the Nature of Running Sunspot Waves with the Interface Region Imaging Spectrograph*
- 11:40 am **Paola Testa**, *Evidence of Non-Thermal Particles in Coronal Loops Heated Impulsively by Nanoflares*
- 11:55 am **Open Discussion**
- 12:15 pm – 1:15 pm **HMI Vector Field Forum** (Lloyd Center – Weidler/Halsey)
Bring your lunch! Stop by and chat with HMI team members for the latest updates on the vector magnetic field data.
- 12:00 pm – 1:30 pm **Lunch (on your own)**
- 1:30 pm – 3:15 pm **Plenary Session 3a. Ion-Neutral Interactions within Earth's Atmosphere and the Solar Atmosphere**
(Cascade Ballroom, Level 2)
Session Chair: Bart De Pontieu, Lockheed Martin, SAL, Palo Alto, CA
- 1:30 pm **Mats Carlsson**, *Heating Requirements of the Solar Chromosphere*
- 1:55 pm **Juan Martinez-Sykora**, *Numerical Simulations of Ion-Neutral Interaction Effects in the Solar Chromosphere*
- 2:20 pm **Wenbin Wang**, *How Does the Sun Drive the Dynamics of the Earth's Thermosphere and Ionosphere*
- 2:45 pm Richard Eastes (presented by **Stan Solomon**), *Observing Earth's Response to Solar Variability with the GOLD Mission*
- 3:10 pm **Open Discussion**
- 3:15 pm – 3:45 pm **Break**
- 3:45 pm – 5:30 pm **Plenary Session 3b. Heliosphere-Magnetosphere Interactions from Bowshock to Geotail**
(Cascade Ballroom, Level 2)
Session Chair: Jacob Bortnik, University of California - Los Angeles
- 3:45 pm **Drew Turner**, *An Overview of Transient Ion Foreshock Phenomena and their Impacts on Earth's Magnetosphere*
- 4:10 pm **Tai Phan**, *Ion and Electron Bulk Heating in Magnetic Reconnection: Dependence on the Inflow Alfvén Speed and Magnetic Shear Angle*
- 4:35 pm **Scot Elkington**, *Energy Transfer from the Heliosphere and the Dynamics of the Van Allen Radiation Belts*
- 5:00 pm **Geoff Reeves**, *The Complex Structure and Dynamics of the Inner Magnetosphere as Revealed by the Van Allen Probes Mission*
- 5:25 pm **Open Discussion**
- 6:30 pm – 8:00 pm Networking Event / Student Awards**
Oregon Museum of Science & Industry (OMSI)

Thursday, Nov. 6

- 8:00 am – 9:45 am **Plenary Session 4a. *Origins of Solar Magnetic Fields, Variability, and Effects at Earth*** (Cascade Ballroom, Level 2)
Session Co-Chairs: Allison Jaynes, LASP, University of Colorado, Boulder, CO;
and Carrie Black, NASA Goddard Space Flight Center
- 8:00 am **Takashi Sekii**, *Helioseismic Studies of Solar Dynamics*
- 8:20 am **Harry Warren**, *Empirical, Semi-Empirical, and Physical Models of Solar Irradiance Variability*
- 8:40 am **Janet Luhmann**, *Toward Connecting the Sun-to-Earth Picture: What we can do today*
- 9:00 am **Sasha Ukhorskiy**, *Global Variability of the Outer Radiation Belt: Highlights from Van Allen Probes*
- 9:20 am **Cora Randall**, *Solar Influences on the Earth's Atmosphere*
- 9:40 am **Open Discussion**
- 9:45 am – 10:15 am **Break**
- 10:15 am – 12:00 pm **Plenary Session 4b. *Modeling and Forecasting Space Climate and Space Weather Events*** (Cascade Ballroom, Level 2)
Session Chair: Todd Hoeksema, Stanford University, Stanford, CA
- 10:15 am **Jeff Newmark**, *NASA Heliophysics System Observatory (HSO)*
- 10:45 am Panel Discussion: *Using HSO to Improve Data-Driven Modeling in Heliophysics*
Panel Members: **Karel Schrijver, Nathan Schwadron, Kanya Kusano, Tamas Gombosi, K. D. Leka**
- 12:00 pm – 1:00 pm **Lunch (on your own)**
- 1:00 pm – 2:45 pm **Poster Session – P3/P4 (Wednesday/Thursday group)** (Lloyd Center, Level 1)
(featuring Topics 3a, 3b)
- 1:00 pm – 2:45 pm **Splinter Session S-16 (1a). *Magnetic Energy and Field in the Heliosphere (Part I)*** (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)
Session Chair: Marco Velli, NASA Jet Propulsion Laboratory, Pasadena, CA
- 1:00 pm **Franco Rappazo**, *Equilibria, Current Sheet Formation and Heating of the Magnetically Confined Corona*
- 1:20 pm **Olga Panasenco**, *Magnetic Nature of Prominences and CMEs at Different Scales Throughout the Cycle*
- 1:40 pm **James Spann**, *On Remotely Measuring the Interplanetary Magnetic Field*
- 1:55 pm **Leif Svalgaard**, *The Heliomagnetic Field 1835-2014*
- 2:10 pm **Ilpo Virtanen**, *Magnetic Flux Density in the Inner and Outer Heliosphere*
- 2:25 pm **Merav Opher**, *The Magnetic Field in the Outer Heliosphere*
- 2:45 pm – 3:15 pm **Break**

- 3:15 pm – 5:00 pm **Splinter Session S-17 (2a). *Evolution of Coronal Mass Ejections through the Heliosphere into Geospace* (Cascade Ballroom – Mt. Hood/Mt. St. Helens, Level 2)**
Session Chair: Paulett Liewer, NASA Jet Propulsion Laboratory, Pasadena, CA
- 3:15 pm **Robin Colaninno**, *Propagation and Evolution of Coronal Mass Ejections in the Heliosphere; the STEREO-era*
- 3:35 pm **Nat Gopalswamy**, *Earth-Affecting Coronal Mass Ejections*
- 3:55 pm **Christina Cohen**, *Recent Results on the Longitudinal Distribution of Solar Energetic Particles in the Heliosphere*
- 4:15 pm **Melissa Pesce-Rollins** (presented by **Wei Liu**), *Gamma-rays, EUV Wave (Shock), and SEPs Associated with the M1.5 Behind-the-limb Flare on 2013-Oct-11*
- 4:30 pm **Ailsa Prise**, *Tracking a coronal mass ejection and co-rotating interaction region as they travel from the Sun passing Venus, Earth, Mars and Saturn*
- 4:45 pm **Yuan-Kuen Ko**, *The Internal Structure of ICME Ion Properties, Its Magnetic Structure and Associated Solar Eruption Sources*
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- 3:15 pm – 5:00 pm **Splinter Session S-18 (1a). *Magnetic Energy and Field in the Heliosphere (Part II)* (Cascade Ballroom – 3 Sisters/Mt. Bachelor, Level 2)**
Session Chair: Phillip Chamberlin, NASA Goddard Space Flight Center, Greenbelt, MD
- 3:15 pm **Feng Chen**, *Magnetic Field Lines and Coronal Loops – A Difficult Relation*
- 3:30 pm **Tilaye Tadesse Asfaw**, *First use of Synoptic Vector Magnetograms for Global Nonlinear Force-Free Coronal Magnetic Field Models*
- 3:45 pm **Mark Cheung**, *Thermal Diagnostics with SDO/AIA: Applying a Validated Method to Studying Eruptive Active Regions*
- 4:00 pm **Ineke De Moortel**, *Joint SDO/AIA and IRIS Observations of Propagating Coronal Disturbances*
- 4:15 pm **Alan Title**, *Flare Clustering*
- 4:30 pm **Hugh Hudson**, *Overview of the HMI Coronal Observations*
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- 3:15 pm – 5:00 pm **Splinter Session S-19 (3a). *The Ionosphere: Dynamics, energetics and ion-neutral effects* (Willamette Ballroom – Ross/Morrison, Level 1)**
Session Chair: Stan Solomon, High Altitude Observatory, NCAR, Boulder, CO
- 3:15 pm **Geoff Crowley**, *Plasma-Neutral Coupling in the Solar Chromosphere and Ionosphere/Thermosphere*
- 3:33 pm **Tom Immel**, *Search for the Drivers of Ionospheric Variability*
- 3:51 pm **Scott England**, *Atmospheric Wave Impacts on the Ionosphere via Multiple Coupling Pathways*
- 4:09 pm **Joe Huba**, *Impact of Tsunami-Generated Gravity Waves on the Ionosphere*
- 4:27 pm **Jonathan Krall**, *How the Thermosphere Shapes the Quiet-Time Plasmasphere*
- 4:40 pm **Lois Sarno-Smith**, *The Disappearance of the Post-Midnight High Energy Ion Plasmasphere*
- 4:53 pm **Open Discussion**

3:15 pm – 5:00 pm

Splinter Session S-20. Hinode/IRIS: Origins of the Solar Wind

(Willamette Ballroom – Hawthorne/Sellwood, Level 1)

Session Chair: Alphonse Sterling, NASA Marshall Space Flight Center, Huntsville, AL

3:15 pm **Hui Tian**, *Prevalence of Micro-jets from the Network Structures of the Solar Transition Region and Chromosphere*

3:40 pm **David Brooks**, *A Search for the Origin of the Slow Solar Wind using Full Sun Spectroscopic Observations from Hinode*

3:55 pm **Chloe Guennou**, *Elemental Abundances of Plume and Interplume Regions: Identifying the coronal source of the fast solar wind*

4:10 pm **Kyoung-Sun Lee**, *Determination of the Abundances of Polar Jets using Hinode/EIS and an Investigation of the Relationship with the Fast Solar Wind*

4:25 pm **Len Culhane**, *Determining the Location of Open Magnetic Field Areas in Active Regions and their Potential as Sources of the Slow Solar Wind*

4:40 pm **Scott McIntosh**, *Strong Blue Asymmetries in IRIS Line Profiles: Identifying Heliospheric Tributaries*

4:55 pm **Open Discussion**

5:00 p.m.

Adjourn