Sunday, June 12

• 14:00 - 17:00, SPD Committee meeting (closed)
• 16:00 - 18:00, Student/Teacher/Scientists Outreach Event: NMSU Golf Course
• 18:30 - 21:30, Opening Reception: NMSU Golf Course

Monday, June 13

• 07:30 - 08:30, Breakfast/Poster viewing
• 08:30 - 09:20, Parker Lecture 1: Abbett, Modeling the physical connection between the solar convection zone and corona, (Chair: Alexander)
  – 09:20 - 10:20, Session 1: Instrumentation/Methods, (Chair: Abramenko)
    * 09:20, Gary, The Expanded Owens Valley Solar Array
    * 09:35, Kaufmann, Search of Continuum Solar Flare Radiation from GHz to THz Frequencies
    * 09:50, Kellerer, Adaptive Optics At The New Solar Telescope - Present, Future And Beyond
    * 10:05, Davey, The Virtual Solar Observatory at Eight and a Bit!
• 10:20 - 11:00, Coffee & Posters
• 11:00 - 12:30, Session 2: Solar Interior, (Chair: Schou)
  – 11:00, Sturrock, Helioradiology: A New View Of The Deep Solar Interior: Indications Of A Slowly Rotating Core And An Inner Tachocline
  – 11:15, Pipin, The Waldmeier Effect and Asymmetry of Solar Magnetic Cycles in a Surface-Shear Dynamo Model
• 11:30, Hathaway, The Sun’s Meridional Circulation - not so Deep
• 11:45, Baldner, The Magnetic Fields of the Solar Interior
• 12:00, Munoz-Jaramillo, The Double-Ring Algorithm: Reconciling Surface Flux Transport Simulations and Kinematic Dynamo Models
• 12:15, Weber, The Rise of Active Region Flux Tubes in the Turbulent Solar Convective Envelope
• 12:30 - 13:30, Lunch
  – SPD E/PO lunch meeting (meet in the poster room)
• 13:40 - 15:40, Session 3: Lower Atmosphere, (Chair: Linton)
  – 14:10, Sainz Dalda, Spectropolarimetric Study Of Sea-serpent Penumbral Filaments And A Naked Sunspot
  – 14:25, Burleigh, The Observed Red Asymmetry in the Bisectors of the Chromospheric CaII 854.2 nm Line
  – 14:40, Schad, High-Resolution He I Spectropolarimetry of Chromospheric Fibrils
  – 14:55, Kim, Propagating Transverse Wave In A Spicule Observed By The Hinode SOT
  – 15:10, Fox, Explosive Event Rates in He II from MOSES Data
  – 15:25, Kleint, Spectropolarimetry Of The Footpoints Of A C-class Flare In The Chromosphere
Tuesday, June 14

- 15:40 - 16:00, Coffee & Posters
- 16:00 - 18:00, Session 4
  - 16:00 - 16:50, Special Lecture: Alan Stern, *The coming next-gen reusable suborbital era: New capabilities for solar research* (Chair: Alexander)
  - 16:50 - 18:00, Poster viewing

- 19:00 - 20:00, Public Lecture: D. Pesnell, *The Many Colors of the Sun*, (Chair: McAteer), Atkinson Hall

- 20:00 - 22:00, SPD Business meeting, Atkinson Hall

Wednesday, June 15

- 07:30 - 08:30, Breakfast/Poster viewing
- 08:30 - 09:20, Parker Lecture 2: Pinsonneault, *The solar-stellar connection in the precision stellar astrophysics era*, (Chair: Jackiewicz)
  - 09:20 - 10:20, Session 7: Upper Atmosphere II, (Chair: Bradshaw)
    * 09:20, Foukal, *Dimming of the 17th Century Sun*
    * 09:35, Bennasar, *Formation and Evolution of a Multi-Threaded Prominence with Different Heating Scenarios*
    * 09:50, Tun, *Three-dimensional Mapping of the Lower Corona and Transition Region*
    * 10:05, Krista, *The Evolution and Space Weather Effects of Solar Coronal Holes*

- 10:20 - 11:00, Coffee & Posters
- 11:00 - 12:30, Session 8: Advanced Technology Solar Telescope, (Chair: Keil)
  - 11:00, Rimmele, *The Advanced Technology Solar Telescope - Constructing The World’s Largest Solar Telescope*
  - 11:15, Berger, *Filament and Prominence Research with the Advanced Technology Solar Telescope*
  - 11:30, McIntosh, *Coupling The Dynamics Of The Outer Atmosphere With ATST*
  - 11:45, Stein, *Magnetic Fields: Modeling And ATST Observations*
  - 12:00, Casini, *The Visible Spectro-Polarimeter (ViSP) for the ATST: Science Objectives and Design Concepts*
– 12:15, Schmidt, The Visible Tunable Filter and the Science it will do

• 12:30 - 13:30, Lunch

• 13:40 - 15:40, **Session 9: Solar Dynamics Observatory**, (Chair: Thompson)
  – 13:40, Scherrer, SDO/HMI - The First Year
  – 13:55, Hock, First Year Of Science Results From Solar Dynamics Observatory (SDO) Extreme Ultraviolet Variability Experiment (EVE)
  – 14:10, Glesener, Energetics And Heating In A Solar Plasma Ejection Observed By RHESSI And AIA
  – 14:25, Sterling, Insights into Filament Eruption Onset from Solar Dynamics Observatory Observations
  – 14:40, Zhang, CME Cavity, Core And Flux Rope: New Insights From Sdo And Stereo Observations
  – 15:10, Vourlidas, EUV Imaging Of Shock Formation In The Low Corona With SDO/AIA
  – 15:25, Torok, 3d MHD Simulation Of Sympathetic Eruptions on 1 August 2010

• 15:40 - 16:00, Coffee & Posters

• 16:00 - 16:50, **Harvey Prize Talk: Rempel**, Numerical Simulations of Sunspots: From the Scale of Fine Structure to the Scale of Active Regions, (Chair: Habbal)

• 16:50 - 17:30, Poster viewing

• 17:30 - 22:30, Banquet, Farm and Ranch Museum

**Thursday, June 16**

• 07:30 - 08:30, Breakfast/Poster viewing

• 08:30 - 09:20, **Parker Lecture 3: Karpen**, Prominences: the key to understanding solar activity, (Chair: Habbal)

– 09:20 - 10:20, **Session 10: Flares I**, (Chair: Qiu)
  * 09:20, Share, Impulsive High-Energy Particle Acceleration in the SOL2010-06-12T00:57 M2 X-ray Flare
  * 09:35, Petrosian, Fermi-LAT Observation of > 100 MeV Gamma-rays Of March 7-8, 2011 Solar Flares
  * 09:50, Longcope, The Origin Of High Density In Loop-top X-ray Sources
  * 10:05, Ishikawa, On the Relation of Above-the-loop-top and Footpoint Hard X-ray Sources in Solar Flares

• 10:20 - 11:00, Coffee & Posters

• 11:00 - 12:30, **Session 11: Flares II**, (Chair: McKenzie)
  – 11:00, Watson, The Magnetic and Dynamic Properties of Flaring Active Regions
  – 11:15, Christie, The Flare Productivity of Active Regions
  – 11:30, Fleischman, Detection of the Acceleration Site in a Solar Flare
  – 11:45, Inglis, Pulsations In Two-ribbon Flares: Waves, Reconnection Or Both?
  – 12:00, Qiu, Heating of Flare Loops During a Two-ribbon Flare on 2005 May 13
  – 12:15, Raulin, The Time-Extended Phase of Solar Flares at MM-SUBMM Wavelengths

• 12:30 - 13:30, Lunch

• 13:40 - 15:40, **Session 12: CMEs**, (Chair: Reinard)
  – 13:40, Olmedo, Partial Torus Instability in Initiating Coronal Mass Ejections
  – 13:55, Antiochos, CME Onset And Take-off
  – 14:10, Fan, An MHD Model of the December 13 2006 Eruptive Flare
  – 14:25, Ma, Dynamics of Coronal Mass Ejection Origins
  – 14:40, Habbal, The Coronal Imprints of Eruptive Prominences and CMEs as Revealed by the Total Solar Eclipse Observations of 11 July 2010
  – 14:55, Murphy, Plasma Heating During a Coronal Mass Ejection Observed by SOHO
– 15:10, White, *Simultaneous Observations of H\(\alpha\); Moreton Waves and EUV Waves*

– 15:25, Howard, *The Evolution Of Coronal Mass Ejections And Large Solar Wind Structures*

● 15:40 - 16:00, Coffee & Posters

● 16:00 - 17:30, **Session 13: Solar Wind, SEPs, and the Heliosphere**, (Chair: de Nolfo)

  – 16:00, Jackson, *The 3D Reconstruction of Heliospheric Density Using Thomson-Scattering Observations - Current Progress and Future Prospects*

  – 16:15, DeForest, *Imaging The Solar Wind At 1 AU with Stereo/hi-2*

  – 16:30, Masson, *Interchange Slip-running Reconnection and Sweeping SEP Beams*

  – 16:45, van der Holst, *A Two-temperature Solar Wind Model: Validation And Two-temperature CMEs*

  – 17:00, Linker, *Magnetohydrodynamic Modeling of the Origin and Evolution of Corotating Interaction Regions*

  – 17:15, Park, *Dependence Of Solar Proton Events On Flare And Cme Parameters*