SHINE 2018 Workshop Schedule  
July 29-August 3, 2018 – Cocoa Beach, FL

Sunday, July 29: Student Day - For Students Only

Monday, July 30 [Chair: G. de Nolfo]
7:00 Breakfast  
8:30 Welcome and Opening Remarks: de Nolfo & Lugaz  
8:40 Student Day Summary  
8:50 Agency Talks  
9:40 1-slide Session Description de Nolfo & Lugaz  
10:00 Plenary Talk 1: Marco Velli  
10:45 Coffee Break  
11:15 Town Hall Session: Future of Space and Heliospheric Physics  
12:30 Lunch  
14:00 Working Group Sessions  
1. Is Understanding Magnetic Field Connectivity Crucial for Understanding Solar Energetic Particle Events? (H. Bain, I. Richardson)  
2. Instabilities and Their Role in Modifying Turbulence Dynamics (J. TenBarge, J. Juno, V. Roytershteyn)  
3. Advances and Challenges in Data-Constrained Modeling of Solar Eruptions (X. Sun, J. Leake, M. Kazachenko)  
4. Revealing the Physics of the Inner Heliosphere (W. Matthaeus, W. Manchester, G. Zank)  
15:15 Coffee Break  
15:45 WG Session continue  
17:00 Sessions end – Go to Marriott  
17:15 Welcome reception and Posters  
20:00 Adjourn

Tuesday, July 31 [Chair: K. Korreck]
7:00 Breakfast  
8:30 Session Progress and Prospects WG Leaders  
9:00 Plenary Talk 2: Barbara Thompson and Craig DeForest  
9:45 Go to your breakout rooms  
9:50 Working Group Sessions  
1. Are SEP Spectral Breaks due to Acceleration near the Sun or Transport in Interplanetary Space? (M. Desai, J. Giacalone, E. Christian)  
3. The return of CMEs - What are we assuming, what do we know, and how can we move forward? (N. Al-Haddad, P. Hess)  
4. Using PSP to Probe Magnetic Reconnection at the Sun (J. Dahlin, T. Phan)  
11:05 Coffee Break  
11:30 WG Sessions continue  
12:45 Lunch  
14:00 Working Group Sessions  
1. Role of turbulence in dynamics of SEPs (T. Parashar, M. Desai)
2. Ion and Electron Distributions in the Solar Wind (K. Horaites, K. Klein, D. Verscharen)
3. Understanding the Magnetic Configuration of CMEs (T. Nieves-Chinchilla, L. Jian, Q. Hu)
4. Signatures of Time-dependent Heating in Active Regions and the Slow Solar Wind (S. Bradshaw, W. Barnes, N. Viall)

15:15 Coffee Break
15:45 WG Sessions continue
17:00 Sessions end – Go to Marriott
17:15 Poster Session at the Marriott
20:00 Adjourn

Wednesday, August 1 [Chair: E. Christian]
7:00 Breakfast
8:30 Session Progress and Prospects WG Leaders
9:30 Plenary Talk 3: George Ho
10:15 Go to your breakout
10:20 Working Group Sessions
   1. Suprathermal ions and electrons in interplanetary space: Properties and Roles (M. Dayeh, R. Bucik, C. Salem)
   2. Testing the Standard Model of solar eruptive events: the X8 limb flare of 10 September 2017 (P. Young)
   3. Insights into CMEs and Their Substructure(s) (M. Bisi, B. Jackson)
11:35 Coffee Pause
11:50 WG Sessions continue
13:05 Free Afternoon
18:00: Poster Sessions at the Marriott with Refreshment

Thursday, August 2 [Chair: S. White]
7:00 Breakfast
8:30 Session Progress and Prospects WG Leaders
8:55 Plenary Talk 3: Kathy Reeves
9:40 Go to your breakout
9:45 Working Group Sessions
   1. Galactic cosmic ray transport in the heliosphere (C. Corti, V. Bindi)
   2. How does the solar atmosphere connect to the inner heliosphere? (S. Antiochos, N. Arge, J. Burkepile, G. deToma, S. Cranmer, S. Gibson)
   3. Observational Signatures of Star-Planet Interactions (D. Alexander, F. Toffoletto, A. Sciola)
11:00 Coffee Break
11:30 WG Sessions continue
12:45 Lunch Break
12:45 NSF Town Hall
14:15 Working Group Sessions
   1. Coupled heliospheric and solar energetic particle models (C. Lee, J. Luhmann, M. L. Mays)
   2. Global implications of kinetic-scale particle acceleration throughout the heliosphere (J. Dahlin, L. Wilson, B. Chen, K. Klein, J. Giacalone)
   3. Observations and interpretations of coronal shock waves (R. Young Kivon, P. Hess, T. Nieves-Chinchilla)
4. Modern observation and simulation of the physics of kinetic cascade leading to production of internal energy (W. H. Matthaeus, M. Shay, T. Parashar)

15:30 Coffee Break
16:00 WG Sessions continue
17:15 Sessions end
17:45 Cocktails
19:00 Banquet

Friday, August 3 [Chair: N. Lugaz]
7:00 Breakfast
8:30 Session Progress and Prospects WG Leaders
9:25 LWS Town Hall
9:55 Go to your breakout
10:00 Working Group Sessions
   1. Predicting solar energetic particles: community campaign: July 23 & Sept 10 (M. L. Mays, H. Bain, I. Richardson)
   3. How do small-scale effects feedback on reconnection global dynamics, and vice versa? (K Reeves, M. Kazachenko, L. Tarr, S. Guidoni)
11:15 Coffee Break
11:45 WG Sessions continue
13:00 Final Remarks, Discussion of Next Year’s Workshop
13:30 Workshop Adjourns