

# ISEST/MiniMax 2017 Workshop

Dates: 18 - 22 September 2017  
Location: Jeju, Republic of Korea

Web: <http://kswrc.kasi.re.kr/Workshop/isest2017/>

Session Location: Room 203, ICC JEJU, JeJu

Note: There is only one session at one time, and all sessions throughout the workshop are in the same location.

Sep. 17 (Sunday) 16:00 - 18:00

Registration, Room 203 (2F), ICC Jeju

Sep. 17 (Sunday) 17:30 - 20:30

Reception

Place: Sorang (1F), ICC Jeju. Reception together with COSPAR

Sep. 18 (Monday Morning) 08:30 - 12:30: Registration

Sep. 18 (Monday Morning) 09:00 - 12:30

Session 1: WG Status Report (Chair: Nat Gopalswamy)

09:00-09:05	<b>SOC Remarks</b>	SOC
09:05-09:10	<b>LOC Remarks</b>	LOC
09:10-09:35	<b>WG1 Report: Data</b>	Jie Zhang
09:35-10:00	<b>WG2 Report: Theory</b>	Yuming Wang
10:00-10:25	<b>WG3 Report: Simulation</b>	Fang Shen
10:25-10:50	<b>Coffee Break</b>	
10:50-11:15	<b>WG4 Report: Campaign</b>	Nariaki Nitta
11:15-11:40	<b>WG5 Report: Bs</b>	Spiros Patsourakos
11:40-12:05	<b>WG6 Report: SEP</b>	Nat Gopalswamy (Acting) <sup>a</sup>
		Olga Malandraki,
		Alessandro
		Bemporad
		(Standing) <sup>b</sup>
12:05-12:30	<b>WG7 Report: MiniMax24</b>	Jie Zhang (Acting)
		Manuela Temmer
		(Standing)

Note (a): Acting: Acting Working Group Leader for 2017 Workshop

Note (b): Standing: Standing Working Group Leader from 2014-2018 for ISEST Project

12:30-14:00 **Lunch Break**

Sep. 18 (Monday Afternoon) 14:00 - 17:30

Session 2: WG1 on Data (Chair: Jie Zhang)

14:00-15:00	<b>Key Problems in the forecasting of the geoeffectiveness of CMEs</b>	Chenglong Shen (theme-setting speaker) Daye Lim
15:00-15:20	<b>Development of a Daily Solar Major Flare Occurrence Probability Model Based on Vector Parameters from SDO/HMI</b>	
15:20-15:40	<b>Application of Convolution Neural Network to the forecasts of flare classification and occurrence using SOHO MDI data</b>	Eunsu Park
15:40-16:10	<b>Coffee Break</b>	
16:10-16:30	<b>Heating of an erupting prominence associated with a solar coronal mass ejection on 2012 January 27</b>	Jin-Yi Lee
16:30-16:50	<b>Study of Filament Eruption During 2015 March 14 -15</b>	Ramesh Chandra
16:50-17:10	<b>Open Discussion</b>	
17:10-17:30	<b>Open Discussion</b>	

Sep. 19 (Tuesday Morning) 09:00 - 12:30

Session 3: WG1 on Data (Chair: Chenglong Shen)

09:00-09:20	<b>Constraining CMEs and Shocks by Observations and Modelling throughout the inner heliosphere</b>	Andrei Zhukov
09:20-09:40	<b>Progress on solar activity (flares and CMEs) prediction in space weather science</b>	Jie Zhang
09:40-10:00	<b>Forecast of Solar Energetic Particles Depending on CME 3D Parameters Using Multiple Spacecraft</b>	Jinhye Park
10:00-10:20	<b>Two distinct types of CME-flare relationships based on SOHO and STEREO</b>	Soojoeng Jang
10:20-10:40	<b>Statistical study on the kinematic distribution of CMEs from 1996 to 2015</b>	Seong-Gyeong Jeon
10:40-11:10	<b>Coffee Break</b>	
11:10-11:30	<b>Assessing the collision nature of coronal mass ejections in the inner heliosphere</b>	Wageesh Mishra
11:30-11:50	<b>PC index as a proxy of the solar wind energy incoming into the magnetosphere</b>	Oleg Troshichev
11:50-12:10	<b>Open Discussion</b>	
12:10-12:30	<b>Open Discussion</b>	
12:30-14:00	<b>Lunch Break</b>	

Sep. 19 (Tuesday Afternoon) 14:00 - 17:30

Session 4: WG2/3 on Theory/Simulation (Chair: Yuming Wang)

14:00-15:00	<b>Progress of MHD Simulations for the Interplanetary Propagation of Coronal Mass Ejections</b>	Christina Verbeke (Theme-setting speaker)
15:00-15:20	<b>Iterative 3-D MHD ENLIL Modeling Using Interplanetary Scintillation (IPS) Observations</b>	Bernard Jackson

15:20-15:40	<b>Data-driven evolving models of the solar corona</b>	Mark Cheung
15:40-16:10	<b>Coffee Break</b>	
16:10-16:30	<b>Response of the Earth's magnetosphere and ionosphere to the small-scale magnetic flux rope in solar wind by the global MHD simulation</b>	Kyung-Sun Park
16:30-16:50	<b>CME dynamics using STEREO &amp; LASCO observations: the relative importance of Lorentz forces and solar wind drag</b>	Nishtha Sachdeva
16:50-17:10	<b>Open Discussion</b>	
17:10-17:30	<b>Open Discussion</b>	

**Sep. 20 (Wednesday Morning) 09:00 - 12:30**  
**Session 5: WG4 on Event Campaign Study (Chair: Nariaki Nitta)**

09:00-10:00	<b>What we can learn from the ISEST WG4 campaign study of Sun-Earth events?</b>	Katsuhide Marubashi (Theme-setting speaker)
10:00-10:20	<b>Evolution a coronal mass ejection from the Sun to Mercury, Venus, Earth and beyond</b>	Yuming Wang
10:20-10:40	<b>Stealthy but Earth-Affecting CMEs</b>	Nariaki Nitta
10:40-11:10	<b>Coffee Break</b>	
11:10-11:30	<b>Statistical analysis of solar events associated with ith SSC over one year of solar maximum during cycle 23: propagation and effects from the Sun to the Earth</b>	Brigitte Schmieder
11:30-11:50	<b>On the dynamics of the largest active region of the solar cycle 24</b>	Srivastava Nandita
11:50-12:10	<b>Open Discussion</b>	
12:10-12:30	<b>Open Discussion</b>	

**Sep. 20 (Wednesday Afternoon) 14:00 - 17:30**  
**Session 6: WG5 on Bs (Chair: Spiros Patsourakos)**

14:00-15:00	<b>Different techniques for (and some success in) measurement of Bs</b>	Berni Jackson (Theme-setting speaker)
15:00-15:20	<b>Predicting &amp; Testing of Bz, Local CME Properties, White Light Images, and Type II Radio Emission from Sun to Earth</b>	Iver Cairns
15:20-15:40	<b>Effects of Geometries and Substructures of ICMEs on Geomagnetic Storms</b>	Jae-Ok Lee
15:40-16:10	<b>Coffee Break</b>	
16:10-16:30	<b>Gravitational instability on propagation of MHD waves in astrophysical plasma</b>	Alemayehu M. Cherkos
16:30-16:50	<b>Observation of the Kelvin-Helmholtz Instability in the Solar Prominence</b>	Heesu Yang
16:50-17:10	<b>Open Discussion</b>	
17:10-17:30	<b>Open Discussion</b>	

**Sep. 21 (Thursday Morning) 09:00 - 12:30**  
**Session 7: WG6 on SEP (Chair: Nat Gopalswamy)**

09:00-10:00	<b>The Third class of Solar Energetic Particles</b>	Rok-Soon Kim (Theme-setting speaker)
10:00-10:20	<b>Modeling the solar energetic particle transport in the 3D background solar wind</b>	Fang Shen
10:20-10:40	<b>Shock location and CME 3D reconstruction of the first spatial resolved solar type II radio burst with LOFAR.</b>	Pietro Zucca
10:40-11:10	<b>Coffee Break</b>	
11:10-11:30	<b>A Solar Stationary Type IV Radio Burst and its Radiation Mechanism</b>	Hongyu Liu
11:30-11:50	<b>Spectroscopic observation of a loop-top source of an M1.3 limb solar flare</b>	Kyoung-Sun Lee
11:50-12:10	<b>Temperature of Source Regions of 3He-rich Impulsive Solar Energetic Particle Events</b>	Nai-Hwa Chen
12:10-12:30	<b>Open Discussion</b>	

**Sep. 21 (Thursday Afternoon) 14:00 - 18:00: Excursion**

**Sep. 21 (Thursday Evening) 18:30 - 21:00: Banquet**  
**Location: Woojeong Hall (B2), Booyoung Hotel (with COSPAR)**

**Sep. 22 (Friday Morning) 09:00 - 12:30**  
**Session 8: WG Summary Report (Chair: Kyungsuk Cho)**

09:00-09:20	<b>WG1 Summary Report</b>	Jie Zhang
09:20-09:40	<b>WG2 Summary Report</b>	Yuming Wang
09:40-10:00	<b>WG3 Summary Report</b>	Fang Shen
10:00-10:20	<b>WG4 Summary Report</b>	Nariaki Nitta
10:20-10:40	<b>WG5 Summary Report</b>	Spiros Pasourakos
10:40-11:10	<b>Coffee Break</b>	
11:10-11:30	<b>WG6 Summary Report</b>	Nat Gopalswamy
<b>Session 9: Future Plan and Open Discussion (Chair: Jie Zhang)</b>		
11:30-12:30	<b>Future Plan and Open Discussion</b>	
12:30	<b>Adjourn</b>	