

08:30–09:30 Registration

09:30–10:00 Inauguration Ceremony

10:00–11:00 High Tea

11:00–13:00 Magnetised Solar Photosphere : Dynamical Phenomena, Waves
and Coupling with Sub-layers (I) *Chair: Sami K. Solanki*

11:00–11:20 **Paul Cally** *Wave Coupling Across Many Scale Heights in the Wounded Sun (ICT)*

11:20–11:40 **Aimee Norton** *p-Mode Absorption and MHD Wave Generation in Sunspots Using Helioseismology and Vector Polarimetry (ICT)*

11:40–11:55 **Paul Rajaguru** and H.M. Antia *Effects of Observation Heights and Atmospheric Wave Evolution in Time-Distance Helioseismology of Supergranular Flows (CT)*

11:55–12:10 **Debi Prasad Choudhary** and Christian Beck *Properties of Mass Motions Around Sunspots (CT)*

12:10–12:30 **Sergei Zharkov** and Connor Macrae *What is a Sun-Quake? (ICT)*

12:30–13:00 **Laurent Gizon** *Measurements of solar convective flows in the near-surface layers (IT)*

13:00–14:30 Lunch

14:30–15:50 Magnetised Solar Photosphere : Dynamical Phenomena, Waves
and Coupling with Sub-layers (II) *Chair: Marcel Goossens*

14:30–14:50 **Viggo Hansteen** *Flux Emergence, Small Flares, and the Unresolved Fine Structure (ICT)*

14:50–15:05 **Piyali Chatterjee**, Mats Carlsson and Viggo Hansteen *Modelling Repeatedly Flaring Delta Sunspots (CT)*

15:05–15:35 **Sami Solanki** *Dynamics of the Magnetic Field in the Solar Photosphere (IT)*

MONDAY, February 22, 2016

15:35–15:50 **Suruchi Goel**, Sami Solanki, Natalie Krivova and Shibu Mathew *Statistical Properties of Sunspots Observed by SoHO/MDI (CT)*

15:50 - 16:30 Evening Tea and Poster Presentations

16:30–18:00 Chromospheric and Coronal Dynamics and Their Heating Processes

Chair: Viggo Hansteen

16:30–17:00 **Mats Carlsson** *Chromospheric Heating (IT)*

17:00–17:15 **A. Cristina Cadavid**, John Lawrence, Damian Christian, David Jess and Yeimy Rivera *Multiscale Properties of the High-resolution Solar Chromosphere and Implications for Impulsive Heating (CT)*

17:15–17:30 **C. R. Sangeetha**, Paul Rajaguru *Relationships Between Fluid Vorticity, Kinetic Helicity and Magnetic Field at the Small-Scale (Quiet-Network) on the Sun (CT)*

17:30–17:45 **Tamás Sándor Kiss**, Norbert Gyenge and Robertus Erdélyi *New Temporal Property of Chromospheric Macropicules (CT)*

17:45–18:00 **Viktor Fedun**, Ioannis Giagkiozis, Oleg Onishchenko, Oleg Pokhotelov, Gary Verth, Wendell Horton and Eamon Scullion *Identification of the Vortex Motion in the Solar Atmosphere (CT)*

09:30–10:50 MHD Waves: Observations in Various Magnetic Structures and Seismology (I) *Chair: José Luis Ballester*

09:30–10:00 **Dipankar Banerjee** *Slow Waves in the Open Structures and Their Sources (IT)*

10:00–10:30 **Joten Okamoto** *Resonant Absorption in the Solar Atmosphere (IT)*

10:30–10:50 **Richard Morton** *Investigating Alfvénic Wave Propagation in Coronal Open-Field Region (ICT)*

10:50–11:30 Morning Tea and Poster Presentations

11:30–13:00 MHD Waves: Observations in Various Magnetic Structures and Seismology (II) *Chair: Dipankar Banerjee*

11:30–11:50 **José Luis Ballester**, Marc Carbonell, Roberto Soler and Jaume Terradas *Prominence Oscillations: Effect of a Time-dependent Background Temperature (ICT)*

11:50–12:10 **David Jess** *MHD Wave Dynamics Captured by ROSA at the Dunn Solar Telescope (ICT)*

12:10–12:25 **Samuel Grant** and David Jess *The Thermal Response of Sunspot Atmospheres to Umbral Flashes (CT)*

12:25–12:40 **Girjesh Gupta** *Spectroscopic Evidence of Damping of Alfvén Waves in the Off-Limb Solar Corona (CT)*

12:40–13:00 **Sushanta Tripathi**, Kiran Jain, Shukur Kholikov, Frank Hill, Paul Rajaguru and Paul Cally *Magnetoseismic Study of Active Regions Using Multi-Height SDO Observations (ICT)*

13:00–14:30 Lunch

14:30–16:40 MHD Waves: Observations in Various Magnetic Structures and Seismology (III) *Chair: Robert Erdélyi*

14:30–15:00 **James Alexander McLaughlin**, Richard Morton and Jonathan Thurgood *First Direct Measurements of Transverse Waves in Solar Polar Plumes Using SDO/AIA (IT)*

TUESDAY, February 23, 2016

15:00–15:20 **Inigo Arregui** *Bayesian Seismology (ICT)*

15:20–15:40 **Peter Hugh Keys** *Observations of Surface and Body Modes in Pores (ICT)*

15:40–15:55 **S. Krishna Prasad** *Suppression of Oscillatory Power in Evolving Magnetic Field (CT)*

15:55–16:10 **Ramesh Chandra, P. F. Chen, Aarti Fulara, Abhishek K. Srivastava and Wahab Uddin** *First Observational Evidence of Trapping of Fast Mode EUV Waves at Magnetic Separatrix (CT)*

16:10–16:25 **Neda Dadashi, Hossein Safari, Maryam Gholami and Mohsen Abedini** *Kink and Sausage Oscillations of a QS Mini Loop (CT)*

16:25–16:40 **Chandan Joshi** *Hinode SDO observations of Solar Chromospheric Dynamics (CT)*

16:40–17:20 Evening Tea and Poster Presentations

17:20 Excursion : Agni Pooja (Worship to Fire) Performance at Ganges

05:30–09:00 Sunrise Ganges Boat Trip

09:00–09:30 Morning Tea

09:30–10:55 MHD Waves and Magnetised Atmosphere: Realistic Modelling through Various Layers of the Solar Atmosphere (I) *Chair: Paul Cally*

09:30–10:00 **Vigeesh Gangadharan**, Jason Jackiewicz and Oskar Steiner *Internal gravity waves in magnetized solar atmosphere (IT)*

10:00–10:20 **Teimuraz Zaqarashvili** *Instability of Magnetised Jets in the Solar Atmosphere (ICT)*

10:20–10:40 **Robert Erdélyi** *MHD Waves in Localised Solar Magnetic Structures (ICT)*

10:40–10:55 **Avijeet Prasad** and Arun Mangalam *Modelling of Braided Magnetic Fields in the Solar Corona using Analytic NLFFF Solutions (CT)*

10:55–11:30 Morning Tea and Poster Presentations

11:30–13:00 MHD Waves and Magnetised Atmosphere: Realistic Modelling through Various Layers of the Solar Atmosphere (II) *Chair: Leon Ofman*

11:30–12:00 **Marcel Goossens**, Roberto Soler and Tom Van Doorselaere *Fast Spatial Damping by Resonant Absorption of Counter-Streaming Waves in Slow Flows (IT)*

12:00–12:30 **Elena Khomenko** *MHD waves: Realistic Modelling through Various Layers of the Solar Atmosphere (IT)*

12:30–12:45 **Aveek Sarkar** and K. Chadrashekhhar *Simulation of Coronal Bright Point Oscillations using Nanoflare Heated Loop Model (CT)*

12:45–13:00 **Sanjay Kumar**, Ramit Bhattacharyya and Bhuwan Joshi *Repetitive Magnetic Reconnections and Coronal Dynamics (CT)*

13:00–14:30 Lunch

14:30–15:55 MHD Waves and Magnetised Atmosphere: Realistic Modelling through Various Layers of the Solar Atmosphere (III) *Chair: Viktor Fedun*

14:30 -14:50 **Leon Ofman** *MHD Waves: Realistic Modelling in Active Regions, Coronal Loops, and Prominence (ICT)*

14:50–15:10 **Bo Li** *Inferring Flare Loops Parameters with Sausage Mode Measurements (ICT)*

15:10–15:25 **Michael Griffiths**, Viktor Fedun and Robertus Erdélyi *Using Graphical Processing Units to Simulate the Dynamics Generated by Solar Global Oscillating Eigenmodes Generated in the Solar Atmosphere (CT)*

15:25–15:40 **Yuhao Zhou** and Pengfei Chen *Corona Cavity Found in Pseudo 3D Simulations of Normal Polarity Prominence Held by Sheared Magnetic Arcade (CT)*

15:40–15:55 **Rohit Sharma**, Dhrubaditya Mitra and Divya Oberoi *Energisation of Particles from Magnetic Reconnection (CT)*

15:55–16:30 Evening Tea and Poster Presentations

16:30–18:00 MHD Waves: Observations in Various Magnetic Structures and Seismology (IV) *Chair: Abhishek K. Srivastava*

16:30–17:00 **Paul Song** and Vytenis Vasyliunas *A Model of the Chromosphere: Heating, Structures, and Circulation (IT)*

17:00–17:15 **Chandrashekhara Kalugodu**, Lidong Xia and Zhenghua Huang *Dynamics of the Quiet Sun Bright Point as Seen by IRIS and SDO (CT)*

17:15–17:30 **Rahul Sharma**, Gary Verth and Robertus Erdélyi *Dynamical Evolution of Solar Spicules (CT)*

17:30–17:45 **Tanmoy Samanta**, Dipankar Banerjee and Hui Tian *Quasi-Periodic Brightenings of Solar Coronal Bright Points: Waves or Repeated Reconnections? (CT)*

17:45–18:00 **Pankaj Kumar** *Reflecting MHD Waves in Coronal Arcade Loops (CT)*

**09:30–11:05 Waves, Confined Ejecta, and Plasma Flows at Diverse
Spatio-temporal Scales (I)** *Chair: Parameswaran Venkatakrisnan*

09:30 - 10:00 **Alphonse Sterling**, Ronald Moore, David Falconer and Mitzi Adams
Revised View of Solar Polar Coronal Hole X-Ray Jets (IT)

10:00–10:30 **Durgesh Tripathi** *Heating and Dynamics of Active Region Loops (IT)*

10:30–10:45 **Pradeep Kayshap** and Durgesh Tripathi *Multithermal Structure of Jet (CT)*

10:45–11:05 **Nandita Srivastava**, S.K. Mathew, Raja Bayanna Ankala, Parameswaran Venkatakrisnan and Ramya Bireddy *Structure and Evolution of Solar Filaments as Observed by MAST Telescope (ICT)*

11:05–11:40 Morning Tea and Poster Presentations

**11:40–13:10 Waves, Confined Ejecta, and Plasma Flows at Diverse
Spatio-temporal Scales (II)** *Chair: Elena Khomenko*

11:40–12:10 **Takaaki Yokoyama** and Haruhisa Iijima *Radiative Magnetohydrodynamic Simulations of Chromospheric Spicules (IT)*

12:10–12:25 **Sanjiv Tiwari**, Ronald Moore, Amy Winebarger and Shane Alpert *Magnetic Setting and Transition-Region/Coronal Signatures of Sunspot Penumbra Jets (CT)*

12:25–12:40 **Norbert Gyenge** *Statistical Study of Spatio-Temporal Distribution of Solar Flare and CME Occurrences (CT)*

12:40–12:55 **Marianna Korsos** *Novel Method to Study the Triggers of Energetic Solar Phenomena: from Flares to CMEs (CT)*

12:55–13:10 **Bhuwan Joshi**, Upendra Kushwaha, Astrid Veronig and Yong-Jae Moon *Confined Flux Rope Eruption in Active Region NOAA 10646 and associated M6.2 Flare (CT)*

13:10–14:30 Lunch

14:30–16:00 Instruments and Their Novel Science Aspects (I) *Chair: David Jess*

14:30–15:00 **Kiyoshi Ichimoto** *The Solar-C Mission: Current Status (IT)*

15:00–15:20 **Parameswaran Venkatakrisnan** *Multi Application Solar Telescope (MAST) (ICT)*

15:20–15:40 **Yuanyong Deng**, Zhong Liu, Zhongquan Qu and Haisheng Ji *Chinese Giant Solar Telescope (ICT)*

15:40–16:00 **Siraj Hasan** *A New Window on the Sun: The Indian National Large Solar Telescope (ICT)*

16:00–16:45 Evening Tea and Poster Presentations

16:45–18:05 Instruments and Their Novel Science Aspects (II) *Chair: Durgesh Tripathi*

16:45–17:15 **Mark Rast** *Daniel K. Inouye Solar Telescope (DKIST): Capabilities and Critical Science Plan (IT)*

17:15–17:35 **Dibyendu Nandi** *Science with Aditya: India's Solar Space Mission (ICT)*

17:35–17:50 **Vipin K Yadav**, Nandita Srivastava, Suktisama Ghosh, P.T. Srikar and K. Subhalakshmi *Science Objectives of the Magnetic Field Experiment Onboard Aditya-L1 Spacecraft (CT)*

17:50–18:05 **R Satheesh Thampi**, Anil Bhardwaj, Govind G. Nampoothiri, P. Vinod and S. V. Mohan Kumar *Plasma Analyser Package for Aditya (PAPA) Payload onboard Aditya-L1 Mission (CT)*

19:30 Conference Dinner

09:30–10:45 **Valedictory Session on 'Dynamic Sun I'**

Chair: Siraj Hasan

9:30–10:00 **Klaus Wilhelm** *Quantitative Spectroscopy of the Solar Atmosphere (IT)*

10:00–10:15 **Edwin Ebenezer**, A. Shanmugaraju and K. Suresh *Shock associated parameters of multiple Type II bursts from near sun to outer corona using EUV, Radio-band splitting, white light - LASCO-SOD observations (CT)*

10:15–10:45 **Bhola Nath Dwivedi** *Solar Physics in India and at IIT (BHU) Varanasi (IT)*

10:45–11:45 **High Tea**

11:45–12:15 **In the honour of Bhola Nath Dwivedi**

12:15–13:15 **Lunch**

13:15 **Excursion to Sarnath (Buddha place)**

POSTERS

Magnetised Solar Photosphere : Dynamical Phenomena, Waves and Coupling with Sub-layers

Satish Kumar Kasde, Deepak Kumar Sondhiya and Ashok Kumar Gwal *Multifractal Analysis of Sunspot Number Time Series during the Various Solar Cycles*

Aishawnnya Sharma, Girjesh Gupta, Durgesh Tripathi and Amit Pathak *Direct Observational Evidence of Different Sunspot Waves and Oscillations Driven by a Common Source*

Sobha Nair, Chandan Joshi and Lokesh Bharti *Observations of the Jets over Umbral Dot*

Chromospheric and Coronal Dynamics and their Heating Processes

Girjesh Gupta and Durgesh Tripathi *IRIS and SDO Observations of Small Scale Recurrent Explosive Events*

Alkendra Singh, Hiroaki Isobe, Andrew Hillier, Kazunari Shibata *Chromospheric Anemone Jets as Evidence of Small-scale, Intermittent Magnetic Reconnection in Solar Chromosphere*

Nancy Narang and Dipankar Banerjee *Association of Calcium Network Bright Points with Underneath Photospheric Magnetic Patches*

Alok Ranjan Tiwary, Shibu K. Mathew, A. Raja Bayanna and Rahul Yadav *Imaging Spectro-polarimeter for Multi Application Solar Telescope (MAST): Preliminary Results Obtained in the Photospheric Line Fe I 617.3 nm*

Ioannis Giagkiozis, Marcel Goossens, Gary Verth, Viktor Fedun and Tom Van Doorselaere *Dissipationless Damping of Compressive MHD Modes in Twisted Flux Tubes*

Sargam Mulay, Durgesh Tripathi, A. Giulio Del Zanna and Helen Mason *Multi-wavelength study of twenty jets emanating from the periphery of active regions*

POSTERS

**MHD Waves: Observations in Various Magnetic Structures
and Seismology**

Partha Chowdhury, Abhishek K. Srivastava, Laurent Dolla, Marie Dominique, Y.-J. Moon and Bhola Nath Dwivedi *Multi-Wavelength Analysis of Quasi-Periodic Pulsations in X-rays During a Solar Flare*

Petr Jelinek, Abhishek K. Srivastava, Kris Murawski, Pradeep Kayshap and Bhola Nath Dwivedi *Spectroscopic Observations and Modelling of Impulsive Alfvén Waves along a Polar Coronal Jet*

Krishna Moorogen and Richard Morton *Measuring Kink Waves in the Quiescent H_α Chromosphere to Examine Plasma Properties using Magneto-seismology*

Talwinder Singh, Abhishek K. Srivastava, Leon Ofman and Bhola Nath Dwivedi *On Estimating the Radial Profile of Magnetic Field in Coronal Streamers*

Rohit Sharma, Durgesh Tripathi, Hiroaki Isobe and Avyarthana Ghosh *On the bright Loop Top Emission in Post Flare Loops*

Avyarthana Ghosh, Durgesh Tripathi, G. R. Gupta, V. Polito, Helen Mason and Sami K. Solanki *Fan Loops Observed by IRIS, EIS and AIA*

**MHD Waves and Magnetized Atmosphere : Realistic Modelling
through Various Layers of the Solar Atmosphere**

Anju Kumari *Effect of Background Fluctuations on Kinetic Alfvén Wave Turbulence*

Rajesh Kumar Rai *Nonlinear Interaction of 3D Kinetic Alfvén Wave and Quasi-longitudinal Whistler Wave in Magnetized Plasma*

Samrat Sen and Arun Mangalam *Model of a Flux Tube with Twisted Magnetic Fields*

Alexander Shukhobodskiy and Michael Ruderman *Kink Oscillations of Expanding Flux tube in a Presence of Background Flow*

POSTERS

**MHD Waves and Magnetized Atmosphere : Realistic Modelling
through Various Layers of the Solar Atmosphere**

Luis Bellot Rubio, Milan Gotic and Bart de Pontieu *Magnetic Flux Emergence in the Quiet Sun: The Pathway to the Transition Region*

Swati Sharma *Nonlinear Effects associated with Circularly Polarized Dispersive Alfvén Wave in Solar Wind Plasmas*

Satya Narayanan Anantharaman and Vinay Shankar Pandey *Flute Modes in Twisted Flux Tubes with Uniform Flows*

Rakesh Mazumder, Vaibhav Pant and Dipankar Banerjee *Simultaneous longitudinal and transverse oscillation seen in a loop-like filament*

**Waves, Confined Ejecta, and Plasma Flows at Diverse
Spatio-temporal Scales**

V. Aparna and Durgesh Tripathi *Multiwavelength Analysis of Sigmoid Structures*

Sajal Kumar Dhara, B. Ravindra, Bhuwan Joshi, Shibu K Mathew and Ravinder Kumar Banyal *Two-phase Filament Eruption in Association with Flux Cancellations and Contraction of Coronal Loop Dynamics as Observed by AIA/SDO*

Sudip Mandal, Dipankar Banerjee, Eamon Scullion, Viktor Fedun and Stephane Regnier *Dynamics of a Giant Spiral*

Savita Rani and Ramesh Chandra *Quiescent Filament Eruption and Associated flare on 29 September 2013*

Vaibhav Pant and Dipankar Banerjee *Dynamics of Active Region Moss*

Rangaiah Kariyappa, Joe Zender and Luc Damé *EUV and UV Irradiance Variability and Spatially Resolved Images*

POSTERS

Waves, Confined Ejecta, and Plasma Flows at Diverse Spatio-temporal Scales

Sunitha Rakesh, Chandan Joshi and Lokesh Bharti *Evolution of magnetic reconnection with arcade formation during an M7.9 class flare*

Pande Seema, Pande Bimal, Hema Bisht and Ramesh Chandra *Statistical Study of Different Parameters Responsible for the Geoeffectiveness of Solar Eruptions During the Rising Phase of Solar Cycle 24*

Subhash Kaushik, Anil Kumar Upadhyay and Sonia Sharma *An Investigation of Highly Geo-Effective Solar Transients and Associated Geoeffectiveness*

Vishnu Singh Rathore and Abhay Kumar Singh *Effect of Geomagnetic Storms on Ionosphere during 2012-14*

Instruments and Their Novel Science Aspects

Subhamoy Chatterje, A. N. Ramaprakash, Aafaque R. Khan, Durgesh Tripathy and Dipankar Banerjee *Scattering Study for Solar Ultraviolet Imaging Telescope*

Avyarthana Ghosh, Subhomoy Chatterjee, Aafaque R Khan, Durgesh Tripathi, A. N. Ramaprakash, Dipankar Banerjee, Pravin Chordia, Achim Gandorfer, Dibyendu Nandi, Chaitanya Rajarshi, Sami K. Solanki and S. Sriram *The Solar Ultraviolet Imaging Telescope onboard Aditya-L1*

Valedictory Session on 'Dynamic Sun I'

Vivek Gupta *Some Study of Pulsars and Their Properties*

Govind G. Nampootheri, R. Satheesh Thampi and Anil Bhardwaj *Study of Radial Distribution of the Electron Velocity Distribution Function from Sun to Earth*

Abhishek K. Srivastava *Research Highlights of Solar and Space Plasma Physics Research Group at IIT (BHU)*

G. Suryanarayana, K.M. Hiremath and M. Hegde *Density Invariance of Coronal Mass Ejections*

Anita Mohan *Physics of the Sun's Hot Atmosphere Through Ionized Atoms*

Ashok Kumar Gwal *Investigation of Solar Cycle Distribution of Geomagnetic Storm*

Viktor Fedun, Alexander Rozhnoi, Mariya Solovieva, Abhishek K. Srivastava and Bhola Nath Dwivedi *VLF Observations at IIT (BHU) Varanasi*

Abstracts submitted to 'Dynamic Sun I'

Hui Tian, Peter Young, Kathy Reeves, Tongjiang Wang and Jiansen He *Global Oscillations of Flare Loops Observed with IRIS*

Thomas Williams, Youra Taroyan and Viktor Fedun *The Interaction Between a Magnetic Shocktube and an Alfvénic Twist*

Qingmin Zhang, Zongjun Ning, Haisheng Ji, Pengfei Chen and Chun Xia *Prominence Longitudinal Oscillations and Partial Filament Eruption*

Eamon Scullion *Searching for the Origins of Coronal Heating in the Chromosphere*

Jivraj Pipaliya *Proxy parameter for the Mach number*

Robert Sych, Marian Karlicky, Alexander Altyntsev, Jaroslav Dudik and Larisa Kashapova *Sunspot Waves and Flare Energy Release*

Ding Yuan, Robert Walsh and Jiangtao Su *Stochastic Transients as a Source of Quasi-periodic Process in Solar and Stellar Atmosphere*

Oskar Steiner *Convective Drivers of MHD Waves in the Outer Atmosphere of the Sun*

Jayant Murthy, Margarita Safonova, A.G. Sreejith, Joice Mathew, Mayuresh Sarpotdar, Ambily Suresh, K. Nirmal and Ajin Prakash *Development of astronomical instruments to use in near-space from small platforms*

Ramit Bhattacharyya, Sanjay Kumar and Piotr Smolarkiewicz *A Tale of Two Scales: The Solar Corona*

Ada Ortiz Carbonell, Viggo Hansteen Luis Bellot Rubio and Jaime de la Cruz Rodriguez *Emergence of Granular-Sized Magnetic Bubbles Through the Solar Atmosphere: The Path to the Transition Region*

Arun Kumar Awasthi, Arkadiusz Berlicki, Pawel Rudawy and Petr Heinzel *Multi-Wavelength Diagnostics and Modelling of the Chromospheric Response During Various Phases of a B6.4 Flare of August 20, 2005*