USO GOLDEN JUBILEE INTERNATIONAL CONFERENCE 10—13 Feb. 2026

PROGRAM SCHEDULE

Tuesday 10 Feb 2026

No.	Time	Program
	09:00 — 09:30	Registration
	09:30 — 10:30	Inaugural Session
	10:30 —11:15	High Tea
		Session-1 : Quiet Sun Dynamics
		Chair:
1	11:15 — 11:40	**Takayoshi Oba (Invited)**, Kanazawa University, Japan *Stereoscopic diagnostics of the solar granulation: Two components of the velocity field vector using Hinode and Solar Orbiter*
2	11:40 — 11:55	**Sankalp Srivastava (Contributed)**, Indian Institute of Astrophysics, India *Relation between solar spicules and propagating coronal disturbances using radiative MHD simulations*
3	11:55 — 12:15	**Franziska Zeuner (Solicited)**, IRSOL, Switzerland *Photospheric scattering polarization at high spatial resolution*
4	12:15 — 12:30	**Viktor Fedun (Contributed)**, The University of Sheffield, UK *Solar Atmospheric Modelling Suite: a next step towards accurate modelling of the solar atmosphere*
5	12:30 — 12:50	**Nancy Narang (Solicited)**, Royal Observatory of Belgium, Belgium *Influence of magnetic-field distribution on the spatio-temporal properties of EUV brightenings in the solar atmosphere*
6	12:50 — 13:15	**Sanghita Chandra (Invited)**, Max Planck Institute for Solar System Research, Germany *Understanding the Solar Chromosphere's Fine Structure: Bridging MURaM Simulations and Observations*
	13:15 — 14:15	Lunch
		Session-2: Magnetic & Velocity Fields in Active Regions
		Chair:
7	14:15 — 14:40	**Azaymi Siu Tapia (Invited)**, Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain *New Insights into Low-Chromosphere Magnetic and Velocity Fields in Sunspots: Results from TuMag/SUNRISE III*
8	14:40 — 15:00	**Michal Sobotka (Solicited)**, Astronomical Institute of the Czech Academy of Sciences, Czech Republic *Granular light bridges*
9	15:00 — 15:20	**Johannes Hölken (Solicited)**, Max Planck Institute for Solar System Research, Germany *Exploring spatially highly resolved spectro-polarimetric scans*
10	15:20 — 15:45	**Tanay Veer Bhatia (Invited),** Max Planck Institute for Solar System Research, Germany *Penumbra formation in Sunspot simulations*

11	15:45 — 16:05	**Kiran Jain (Solicited)**, National Solar Observatory, USA *Revealing the Invisible Sun through Doppler Observations of the Visible Photosphere*
12	16:05 —16:20	**Asha Venu (Contributed)**, University of Newcastle, Australia *Surface flows near the leading polarity of emerging active regions consistent with tilt angle*
	16:20 —17:00	Tea Break & Poster Session
		Session-3: Magnetic & Velocity Fields in Active Regions
		Chair:
13	17:00 —17:25	**Jayant Joshi (Invited)**, Indian Institute of Astrophysics, India *Magnetic Field Variations Driven by Umbral Shocks in the Sunspot Chromosphere*
14	17:25 —17:45	**Nitin Yadav (Solicited)**, Indian Institute of Technology – Delhi, India *Beyond Intensity: Linear Polarization as a Proxy for Solar Vortices*
15	17:45 —18:05	**Rahul Yadav (Solicited)**, Laboratory for Atmospheric and Space Physics, CU, USA *Multi-line Spectropolarimetric Observations of a Flaring Active Region with DKIST*
16	18:05 —18:25	**Brajesh Kumar (Solicited)**, Udaipur Solar Observatory PRL, India *Magnetic jerk driven acoustic emissions in the sunspots associated with major solar flares*

Wednesday 11 Feb 2026

No.	Time	Program
		Session-4: Magnetic & Velocity Fields in Active Regions
		Chair:
17	09:00 — 09:25	**Jan Jurčák (Invited)**, Astronomical Institute of the Czech Academy of Sciences, Czech Republic *Magnetic field as the architect of active region morphology*
18	09:25 — 09:40	**David Ivens (Contributed)**, Max Planck Institute for Solar System Research, Germany *Evershed-Flow: A new look through stereoscopic means*
19	09:40 — 10:00	**Nazaret Bello Gonzalez (Solicited)**, Institut für Sonnenphysik (KIS), Germany *On the connectivity of sunspots and surrounding network*
20	10:00 — 10:15	**Debi Prasad Choudhary (Contributed)**, California State University Northridge, USA *Height Extent of Umbral Dots: Photospheric and Chromospheric Signatures from High-Resolution Spectropolarimetry*
21	10:15 — 10:40	**Rohan Eugene Louis (Invited)**, Udaipur Solar Observatory PRL, India *The Nature of Convective Intrusions in Sunspots and the Associated Heating of the Chromosphere and Transition Region*
	10:40 —11:10	Tea Break
		Session-5: Upper Atmospheric Heating
		Chair:
22	11:10 — 11:35	**Lakshmi Pradeep Chitta (Invited)**, Max Planck Institute for Solar System Research, Germany *Coronal Structure and dynamics – New insights with Solar Orbiter*
23	11:35 — 11:50	**Anna Rankin (Contributed)**, University of Lancashire, UK *Exploring small-scale coronal loop structures using ultra high resolution observations from HiC-Flare*
24	11:50 — 12:10	**Salvatore Guglielmino (Solicited)**, INAF - National Institute for Astrophysics, Italy *High-Resolution Ground–Space Synergies for Probing Small-Scale Magnetic Reconnection in the Solar Atmosphere*
25	12:10 — 12:35	**Hidetaka Kuniyoshi (Invited)**, Northumbria University, UK *A unified picture of swirl-driven solar coronal heating: magnetic energy supply and dissipation*
26	12:35 — 12:50	**Navdeep Panesar (Contributed)**, LMSAL/SETI Institute, USA *The Magnetic Origin of Solar Coronal Jets and Campfires: SDO and Solar Orbiter Observations*
27	12:50 — 13:05	**Ravi Chaurasiya (Contributed)**, Udaipur Solar Observatory PRL, India *Automatic Detection of Solar Spicules and their Role in Coupling the Chromosphere and Corona*
28	13:05 — 13:20	**Ananya Rawat (Contributed)**, Udaipur Solar Observatory PRL, India *Probing the magnetic field and plasma-β along individual umbral fan loops using 3-min slow waves*
	13:20 —14:20	Lunch

		Session-6: Diagnostic Techniques - Inversion Codes, Radiative MHD Simulations
		Chair:
29	14:20 —14:45	**Ivan Milić (Invited)**, Institut für Sonnenphysik (KIS), Germany *Spectropolarimetric inversions for the lower solar atmosphere: state-of-the-art and challenges*
30	14:45 —15:05	**Takafumi Kaneko (Solicited)**, Niigata University, Japan *Statistical relationship between subsurface convective flows and the magnetic energy build-up in sunspots*
31	15:05 —15:25	**Anamariá Navarro Noguera (Solicited)**, Instituto de Astrofísica de Canarias (IAC), Spain *Influence of numerical domain design in simulations of solar coronal heating with MAGEC code*
32	15:25 — 15:40	**Fabiana Ferrente (Contributed)**, INAF – OACT, Italy *Multi-line Spettropolarimetry of Solar Flares: insights from high-resolution observations and simulations*
33	15:40 — 15:55	**Souvik Bose (Contributed)**, Lockheed Martin Advanced Technology Center, USA *Magnetic edges dominate heating in the solar atmosphere*
34	15:55 — 16:10	**Anusha LS (Contributed)**, Indian Institute of Astrophysics, India *Dynamic evolution of the solar chromosphere using non-LTE nonequilibrium radiative transfer*
	16:10 — 17:15	Tea Break & Poster Session
	17:15	Public Lecture - TBD
	18:30	Departure to Radisson Blu for Conference Dinner

Thursday 12 Feb 2026

No.	Time	Program
		Session-7: Existing, Upcoming Ground- & Space-based Facilities
		Chair:
35	09:00 — 09:25	**Héctor Socas Navarro (Invited)**, European Solar Telescope Foundation, Spain *The European Solar Telescope*
36	09:25 — 09:50	**Alexei Pevtsov (Invited)**, National Solar Observatory, USA *Next generation GONG: future facilities for research and operational space weather forecast*
37	09:50 — 10:15	**Hemanth Pruthvi (Invited)**, Thüringer Landessternwarte (TLS) Tautenburg, Germany *Instrumentation for the Next-Generation Solar Monitoring*
38	10:15 — 10:35	**Toshifumi Shimizu (Solicited)**, ISAS/JAXA, Japan *SOLAR-C for high resolution EUV spectroscopy*
39	10:35 — 10:55	**Paolo Romano (Solicited)**, INAF - Catania Astrophysical Observatory, Italy *IBIS2.0 at THEMIS: upgraded imaging spectropolarimetry and science prospects*
	10:55 —11:20	Tea Break
		Session-8: Existing, Upcoming Ground- & Space-based Facilities
		Chair:
40	11:20 — 11:45	**Shibu K. Mathew (Invited)**, Udaipur Solar Observatory PRL, India *Multi-Application Solar Telescope (MAST) and its capabilities*
41	11:45 — 12:05	**Raja Bayanna (Solicited)**, Udaipur Solar Observatory PRL, India *Solar Adaptive Optics system at Udaipur Solar Observatory*
42	12:05 — 12:25	**R. Sridharan (Solicited)**, Indian Institute of Astrophysics, India *Bi-spectrum phase-only reconstruction of adaptive optics corrected images of the MAST*
43	12:25 — 12:50	**Michiel van Noort (Invited)**, Max Planck Institute for Solar System Research, Germany *IFU spectropolarimetry at the SST: adventures in 5D*
44	12:50 — 13:15	**Andreas Korpi-Lagg (Invited)**, Max Planck Institute for Solar System Research, Germany *Highlights and First Results from the Sunrise III 2024 Campaign*
	13:15 —14:15	Lunch
	14:30	Departure to Island Observatory & High Tea

Friday 13 Feb 2026

No.	Time	Program
		Session-9: Existing, Upcoming Ground- & Space-based Facilities
		Chair:
45	09:00 — 09:25	**Sankarasubramanian (Invited),** URSC, India *Scientific Results from Adtiya-L1 and Further Prospects*
46	09:25 — 09:50	**Nagaraju K (Invited)**, Indian Institute of Astrophysics, India
47	09:50 — 10:15	**Hanna Strecker (Invited)**, Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain *Solar Orbiter: High resolution observations from unique viewpoints*
48	10:15 — 10:35	**Sanjay Gosain (Solicited),** National Solar Observatory, USA *Magnetographs for Synoptic Solar Science from Ground and Space*
49	10:35 — 10:55	**Xavier Verians (Solicited)**, AMOS, Belgium
50	10:55 — 11:20	**Stephen White (Invited)**, AFRL, USA *Observations of the Sun with ALMA*
	11:20 —11:50	Tea Break
		Session-10: Transients & Space Weather
		Chair:
51	11:50 — 12:15	**Shin Toriumi (Invited),** ISAS/JAXA, Japan *Flare-productive active regions: key observational features and how numerical models explain them*
52	12:15 — 12:35	**Nariaki Nitta (Solicited)**, Lockheed Martin Advanced Technology Center, USA *Large-scale Coronal Waves during 2010–2025 observed by SDO/AIA*
53	12:35 — 12:50	**Sandeep Kumar Dubey (Contributed)**, Udaipur Solar Observatory PRL, India *On the Chromospheric dynamics associated with the X-class flare of 11th November 2025*
54	12:50 — 13:05	**Manjunath Hegde (Contributed)**, Indian Institute of Astrophysics, India *CME speed detection at 20$R_\odot$ using machine learning techniques*
55	13:05 — 13:20	**Soumya Roy (Contributed)**, Physical Research Laboratory, India *White-Light Continuum Observations across the Balmer Jump for SOL2024-10-03T12:18*
	13:20 —14:15	Lunch
		Session-11: Transients & Space Weather
		Chair:
56	14:15 — 14:40	**Ramit Bhattacharyya (Invited),** Udaipur Solar Observatory PRL, India *Data-constrained magnetohydrodynamic simulation of solar coronal transients*
57	14:40 — 14:55	**Durgesh Tripathi (Contributed)**, IUCAA, India *First Results from the Solar Ultraviolet Imaging Telescope*
58	14:55 — 15:10	**Nandita Srivastava (Contributed)**, Udaipur Solar Observatory PRL, India *Sun to Earth propagation of 21 April 2023 CME and its space weather impact*
59	15:10 — 15:25	**Sandeep Kumar (Contributed)**, Udaipur Solar Observatory PRL, India *PFSS Source Surface Height optimisation for improved WSA Solar Wind Velocity forecasting across Solar Cycle 23 , 24 and 25*

60	15:25 — 15:40	**Yogesh Kumar Maurya (Contributed)**, Udaipur Solar Observatory PRL, India *Investigation of magnetic topology and triggering mechanisms of a C-class flare and active-region blowout jet*
61	15:40 — 15:55	**Debesh Bhattacharjee (Contributed)**, Udaipur Solar Observatory PRL, India *Understanding the role of compressibilty using multi-spacecraft in situ observations of ICME-ICME merging on March 3, 2024 event that led to a major geomagnetic storm*
	16:00 — 17:00	Tea Break & Poster Session
		Session-12: Transients & Space Weather
		Chair:
62	17:00 — 17:20	**Anshu Kumari (Solicited)**, Udaipur Solar Observatory PRL, India *Radio Diagnostics of Particle Acceleration*
63	17:20 — 17:35	**Sanjiv Tiwari (Contributed)**, LMSAL/BAERI, USA *A sudden fine-scale bright kernel captured by Hi-C Flare in Fe XXI 129 Å emission during an M1.6-class solar flare's post-maximum phase*
64	17:35 — 17:50	**Safna Banu (Contributed)**, Udaipur Solar Observatory PRL, India *Multi-Sigmoidal Structure's Impact on an Active Region Flare*
65	17:50 — 18:05	**Samrat Sen (Contributed)**, Instituto de Astrofísica de Canarias (IAC), Spain *Merging flux ropes and nanojet ejections: Insights from MHD modeling and synthetic observations*
	18:05	Concluding Remarks & Vote of Thanks