

UK Space Weather and Space Environment Meeting III

Lightning Talks 1: Monday 8 September 2025

	First Name	Last Name	Organisation	Paper Title
1	Martin	Archer	Imperial College London	Characterising magnetopause surface waves within magnetosphere–ionosphere–ground coupling
2	Stephen	Bannister	Northumbria University	Quantitative Characterisation of Magnetic Topology in Solar Active Regions for Operational Space Weather Forecasting
3	Susanna	Bekker	Queen's University Belfast	Response of the total electron content in the ionosphere to the impulsive and late phases of X-class solar flares
4	Damini	Bhagwath	University of Central Lancashire	Model Validation using Historical SEP Event Analysis of the 3D Physics-Based Forecasting Tool SPARX
5	Christopher	Chen	Queen Mary University of London	Examining time-dependent heliospheric solar wind properties driven by evolving WSA boundaries
6	Ingrid	Cnossen	British Antarctic Survey	Projected long-term decline in upper atmosphere density and its impacts on the space debris environment
7	Jackie	Davies	STFC	UK-ODESSI: A Low-Cost, Low-Earth Orbit, In-Orbit Pathfinder for UK Space Weather
8	Clive	Dyer	Csdradconsultancy And University of Surrey Space Centre	The Importance of Single Event Effects For Atmospheric Radiation Scales, Alerts and Actions
9	Ian	Mann	University of Alberta	Understanding, Modelling, and Quantifying the Space Weather Effects of Geomagnetically Induced Currents (GICs) on the Electric Power Grid
10	Mike	Marsh	Met office	Atmospheric Radiation: the Met Office Pathway to Operations
11	Juliana	Rinaldi-Semione	SDGs in Space / Calymru Research	Conceptualising ‘environment’ and ‘sustainability’ for an off-Earth future: leveraging existing expertise and frameworks to make a start
12	Christopher	Chen	Queen Mary University of London	Scale-by-scale accuracy of solar wind analogue ensemble forecasts

Lightning Talks 2: Wednesday 10 September 2025

	First Name	Last Name	Organisation	Paper Title
1	Lucie	Green	University College London	Bayesian Inference for Automated 3D CME Characterization and Uncertainty Quantification
2	Jithu	Jose Athalathil	Indian Institute of Technology Indore	Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks
3	Delores	Knipp	University of Colorado Boulder	Mid-latitude Geomagnetically Induced Currents as a Manifestation of Penetrating Electric Fields
4	Timo	Laitinen	University of Lancashire	Multi-point Solar Energetic Particle observations and space weather forecasting
5	Emily	Mottram	University College London	Probing the characteristics of a pre-eruptive flux rope using novel techniques
6	Sirsha	Nandy	Indian Institute of Technology Indore	Solar Wind Density Pulse Effects on the Ionospheric Electrodynamics Under Variable IMF Orientations
7	Yiwei	Ni	University of St Andrews	Unravelling Filament Barb Dynamics through Pseudo-3D Hydrodynamic Simulations
8	Louisa	Prattley	National Emergency Management Agency New Zealand	Number Eight Wire: Building New Zealand's Approach to Managing Space Weather Risk
9	Ian	Richardson	University of Maryland / Goddard Space Flight Centre	Coronal Mass Ejections Associated with Solar Energetic Particle Events Observed in the Low Corona by the Mauna Loa Solar Observatory
10	David R.	Themens	University of Birmingham	Statistical modelling of high latitude Sporadic-E climatology: A Sporadic-E module for E-CHAIM
11	Bhagyashree	Waghule	University of Colorado Boulder	Very Near-Earth Reconnection (VNERX) and its connection to the 30A GIC spike in the Eastern US
12	Samuel	Wharton	University of Leicester	Measuring the Magnetopause Position with SMILE-SXI