

# UK Space Weather and Space Environment Meeting III Programme

Thursday 11 September

<p>9:00 AM - 10:00 AM</p>	<p><b>Plenary Session 6: Impacts</b> (Room: Main Hall)</p> <p><b>9:00 AM Rick Tanner (Keynote Speaker):</b> Radiation risks to human health (terrestrial, air crew, astronauts) due to cosmic radiation</p> <p><b>9:30 AM Dimitrios Millas:</b> Impact of recent geomagnetic storms on aviation as observed by PECASUS</p> <p><b>9:45 AM Keith Ryden (Invited Speaker):</b> The influence of space weather on electronics</p>	
<p>10:00 AM - 11:00 AM</p>	<p><b>Parallel Session 4A: M-I Coupling</b> (Room: Main Hall)</p> <p><b>10:00 AM Maria-theresia Walach (Invited Speaker):</b> Bridging AMPERE and SuperDARN: Aligning Field-Aligned Current and Ionospheric Convection Boundaries During Geomagnetic Storms</p> <p><b>10:15 AM Sarah Vines (Invited Speaker):</b> The Utility of AMPERE for Space Weather Research and Applications</p> <p><b>10:30 AM Mario Bisi:</b> RISER – Using LOFAR Radio Observations and Modelling of the Heliosphere-Magnetosphere-Ionosphere System</p> <p><b>10:45 AM Liisa Juusola (Invited Speaker):</b> Drivers of rapid geomagnetic variations at high latitudes</p>	<p><b>Parallel Session 4B: Solar &amp; Heliospheric Forecasting II</b> (Room: Old Banqueting Hall)</p> <p><b>10:00 AM Harriet Turner:</b> Using solar wind data assimilation results to drive dynamic solar wind models</p> <p><b>10:15 AM Harshita Gandhi (Invited Speaker):</b> Improving CME forecast diagnostics from pre-launch to interplanetary space: 3D Analysis, Magnetic Constraints, and Deep Learning</p> <p><b>10:30 AM Mathew Owens (Invited Speaker):</b> Solar wind forecasting without magnetograms</p> <p><b>10:45 AM Sarah Watson (Invited Speaker):</b> Statistical Analysis of Comet Disconnection Events Using STEREO HI and a Data Assimilative Solar Wind Model</p>
<p>11:00 AM - 11:30 AM</p>	<p><b>Morning Break</b> (Room: Hadfield Hall)</p>	

11:30 AM - 1:00 PM	<p><b>Parallel Session 5A: Magnetosphere</b> (Room: Main Hall)</p> <p><b>11:30 AM Chiara Lazzeri (Invited Speaker):</b> The Geomagnetic Response to Extreme Southward Turnings of the IMF</p> <p><b>11:40 AM Jean-francois Ripoll (Invited Speaker):</b> New Environment Models of Cold Electrons and Electromagnetic Waves in the Near-Earth Space and their Impact on Radiation Belt Electrons</p> <p><b>11:50 AM Xingzhi Lyu:</b> Modeling MeV Radiation Belt Electron Precipitation and Its Atmospheric Impact Using VERB-4D</p> <p><b>12:00 PM Steve Milan:</b> Magnetospheric responses to the October 2024 ICMEs</p> <p><b>12:10 PM Clare Watt (Invited Speaker):</b> Modelling highly-variable processes in the outer radiation belt</p> <p><b>12:20 PM Panel Session</b></p>	<p><b>Parallel Session 5B: Sun-to-Earth Forecasting</b> (Room: Old Banqueting Hall)</p> <p><b>11:30 AM Lucie Green:</b> Checklist for CME forecasting in advance of an eruption</p> <p><b>11:40 AM Robertus Erdelyi:</b> Solar Activity Monitor Network (SAMNet) - Next step in ground-based Space Weather forecasting</p> <p><b>11:50 AM Edmund Henley (Invited Speaker):</b> Lift-and-shift: useful approaches from terrestrial weather</p> <p><b>12:00 PM Mike Marsh:</b> pyCAT: Rearchitecting Operational CME Analysis</p> <p><b>12:10 PM Ruth Hyndman (Invited Speaker):</b> Investigating SEP transport using observations and simulations</p> <p><b>12:20 PM Panel Session</b></p>
1:00 PM - 2:00 PM	<p><b>Lunch</b> (Room: Hadfield Hall)</p>	
2:00 PM - 3:00 PM	<p><b>Parallel Session 6A: Space Environment</b> (Room: Main Hall)</p> <p><b>2:00 PM Ralph Dinsley (Invited Speaker):</b> Neglected Orbits and the Emperor's New Clothes: The Critical Gap in UK Space Situational Awareness</p> <p><b>2:15 PM Ashley West:</b> AEGIS: Advancing Protective Space Weather Science through Agile Rideshare Missions</p> <p><b>2:30 PM Ben Clewer:</b> The next generation of the Surrey Space Centre's SAIRA atmospheric radiation monitors</p> <p><b>2:45 PM Matthew Brown (Invited Speaker):</b> Improving thermospheric density forecasts for space domain</p>	<p><b>Parallel Session 6B: Sun-to-Earth Science</b> (Room: Old Banqueting Hall)</p> <p><b>2:00 PM Yiwei Ni:</b> Magnetic Transients Associated with a Solar Moreton Wave and Its Local Enhancement</p> <p><b>2:15 PM Philippa Browning (Invited Speaker):</b> Oscillatory reconnection in coalescing magnetic flux ropes</p> <p><b>2:30 PM David MacTaggart (Invited Speaker):</b> The application of magnetic topology approaches to the problem of solar flare and CME prediction</p> <p><b>2:45 PM Pauline Teyseyre:</b> Real-time detection and characterisation of solar flares from ground-based VLF data</p>

	awareness in Low Earth orbit with AENeAS	
3:00 PM - 3:30 PM	Afternoon Break (Room: Hadfield Hall)	
3:30 PM - 5:00 PM	<b>Plenary Session 7: Keynote Speaker and UK-International Community Discussion</b> (Room: Main Hall)  <b>3:30 PM Suzy Bingham:</b> International Collaboration Beyond SWIMMR <b>4:00 PM Discussion</b> <b>4:10 PM Richard Horne:</b> The May 2024 Storm: Recommendations from the SEIEG Report <b>4:30 PM Ian Mccrea:</b> Space weather instrumentation, measurement, modelling and risk (SWIMMR) <b>4:50 PM Closing remarks</b>	
5:00 PM - 5:15 PM	Close (Room: Main Hall)	