

UK Space Weather and Space Environment Meeting II

Programme

Wednesday 11 September 2024

8:30 AM - 9:00 AM	Arrival Refreshments
9:00 AM - 9:45 AM (Room: Exeter Suite 2)	EISCAT & LOFAR Maria Mihalikova: Invited Speaker (9:00 AM - 9:15 AM) EISCAT_3D - A Multi-Static Phased-Array Incoherent Scatter Radar in Northern Fennoscandia Sophie Maguire: Invited Speaker (9:15 AM - 9:30 AM) Observations of plasma structures of varying scale sizes in the high-latitude ionosphere with a suite of instrumentation Biagio Forte (9:30 AM - 9:45 AM) Radio wave scintillation observed through LOFAR to infer properties of ionospheric structures
9:45 AM - 10:30 AM (Room: Exeter Suite 2)	The May 2024 Storm Anthony Iampietro (9:45 AM - 10:00 AM) A Perspective of the Real Time Analysis of the May 2024 Storm from The Moon to Mars Space Weather Analysis Office Eva Weiler (10:00 AM - 10:15 AM) Assessing the geo-effectiveness of CMEs from a sub-L1 perspective Siegfried Gonzi (10:15 AM - 10:30 AM) An Analysis of the May 2024 Superstorm with the tools used by Met Office Forecasters
10:30 AM - 11:00 AM	Morning Break
11:00 AM - 12:00 PM (Room: Exeter Suite 2)	Parallel 1A: The Ionosphere Michaela Mooney (11:00 AM - 11:15 AM) Evaluating auroral forecasts against satellite observations under different levels of geomagnetic activity David Themens: Invited Speaker (11:15 AM - 11:30 AM) High latitude ionospheric response to the May 2024 Storm and its impacts on GNSS Cathryn Mitchell: Invited Speaker (11:30 AM - 11:45 AM) MIDAS ionospheric data assimilation and applications to GNSS Martin Cafolla (11:45 AM - 12:00 PM) Identifying and Tracking TEC Enhancements seen in JPL GIMs and their response to Geomagnetic Activity

<p>11:00 AM - 12:00 PM (Room: County Suite)</p>	<p>Parallel 2A: Solar</p> <p>Thomas Howson: Invited Speaker (11:00 AM - 11:15 AM) A Review of Contemporary Models of the Solar Corona</p> <p>Andrew Hillier (11:15 AM - 11:30 AM) Prominence/filament dynamics and their potential role in the eruption of quiet Sun filaments</p> <p>William Beckwith-chandler (11:30 AM - 11:45 AM) A Precursor to Solar Prominence Eruptions: Detection and Analysis of EUV Prominence Oscillations</p> <p>Jennifer O'Hara (11:45 AM - 12:00 PM) Bridging Operations to Research: Development and Utilization of the SIDC Moderated Solar Weather Event List</p>
<p>12:00 PM - 1:00 PM (Room: Exeter Suite 2)</p>	<p>Parallel 1B: Instrumentation</p> <p>John Morgan (12:00 PM - 12:15 PM) High resolution mapping of the inner heliosphere via ground-based radio observations with state-of-the-art instruments: an australian perspective</p> <p>Jackie Davies (12:15 PM - 12:30 PM) Results of stray-light testing of the COR Stray-light Qualification Model (CSQM)</p> <p>Fan Lei (12:30 PM - 12:45 PM) Development of Compact Cherenkov Proton Detectors and Telescopes</p> <p>Mario Bisi (12:45 PM - 1:00 PM) RASOR: Radio Astronomy and Space Observation Research Facility - An Opportunity for the Future</p>
<p>12:00 PM - 1:00 PM (Room: County Suite)</p>	<p>Parallel 2B: The Magnetosphere</p> <p>Thomas Berger (12:00 PM - 12:15 PM) The Space Weather Operational Readiness Development Center: a new NASA space weather center of excellence</p> <p>Robert Fear: Invited Speaker (12:15 PM - 12:30 PM) Joint Cluster/Ground-Based Studies in the First 20 Years of the Cluster Mission</p> <p>Tom Elsden: Invited Speaker (12:30 PM - 12:45 PM) Numerical Modelling of ULF Waves in Asymmetric Media</p> <p>Enrico Camporeale (12:45 PM - 1:00 PM) Probabilistic forecasting with physics-informed machine learning: Sun-to-mud</p>
<p>1:00 PM - 2:00 PM</p>	<p>Lunch</p>
<p>1:30 PM - 2:00 PM (Room: Exeter Suite 2)</p>	<p>MIST/UKSP Lunch Session</p>

2:00 PM - 4:00 PM	Poster Session Sponsored by UK Space Agency
4:00 PM - 5:00 PM (Room: Exeter Suite 2)	Parallel 1C: The Mesosphere and Thermosphere and Ionosphere Anna Belehaki (4:00 PM - 4:15 PM) Large Scale Travelling Ionospheric Disturbances AI/ML based forecasting model John Plane: Invited Speaker (4:15 PM - 4:30 PM) Meteoric ablation and metallic layers in the mesosphere and lower thermosphere: impacts of space weather Benjamin Reid (4:30 PM - 4:45 PM) A Real-Time Data Assimilation International Reference Ionosphere Natalie Reeves (4:45 PM - 5:00 PM) Understanding the sensitivity of Tle-GCM's forcing parameters
4:00 PM - 5:00 PM (Room: County Suite)	Parallel 2C: The Solar Wind and Coupling to the Magnetosphere Harriet Turner: Invited Speaker (4:00 PM - 4:15 PM) Data assimilation in the solar wind Mathew Owens (4:15 PM - 4:30 PM) Solar-wind Modelling: The Importance of Boundary Evolution Bernard Jackson (4:30 PM - 4:45 PM) Heliospheric Mesoscale 3-D Reconstructions and the UCSD Plan for the NASA Small Explorer PUNCH Analyses Dusan Odstrcil (4:45 PM - 5:00 PM) Improving the Arrival-Time Prediction of Coronal Mass Ejections by Heliospheric Imagery and Ensemble Modeling
5:00 PM - 6:00 PM (Room: Exeter Suite 2)	Parallel 1D: Ground and Infrastructure Cameron Patterson: Invited Speaker (5:00 PM - 5:15 PM) Could Space Weather Delay Your Train? Modelling the Impacts of Geomagnetically Induced Currents on Railway Signalling Systems Matthew Allcock (5:15 PM - 5:30 PM) Space weather and autonomous transport: Voices from industry on risk and resilience Joseph Eggington: Invited Speaker (5:30 PM - 5:45 PM) Extreme space weather risks to power plants: assessing vulnerability, building resilience and improving preparedness Ciaran Beggan (5:45 PM - 6:00 PM) SWIMMR N4: An overview of the completed SAGE project

<p>5:00 PM - 6:00 PM (Room: County Suite)</p>	<p>Parallel 2D: The Radiation Belts</p> <p>Sarah Glauert: Invited Speaker (5:00 PM - 5:15 PM) Energy diffusion in the Earth's radiation belts</p> <p>Ravindra Desai (5:15 PM - 5:30 PM) Electron injections and decays during solar cycle 22 observed by CRRES</p> <p>Fraser Baird (5:30 PM - 5:45 PM) Observations of the Radiation Belts during Solar Minimum</p> <p>Dedong Wang: Invited Speaker (5:45 PM - 6:00 PM) Prediction of Adverse effects of Geomagnetic storms and Energetic Radiation (PAGER) Project and Follow-On</p>
<p>7:00 PM - 10:00 PM (Room: Chiefs Suite)</p>	<p>Conference Dinner</p>