

# UK Space Weather and Space Environment Meeting II

## Programme

Tuesday 10 September 2024

8:15 AM - 8:45 AM	Arrival Refreshments
8:45 AM - 11:00 AM (Room: Exeter Suite 2)	<p><b>LOC session - Invited Talks Including Industry Sponsors/Stakeholders</b></p> <p><b>Paul Monks, DESNZ (8:45 AM - 9:00 AM)</b> R&amp;D to support Severe Space Weather Preparedness</p> <p><b>Wg Cmdr Neal Henley, UK Space Command (9:00 AM - 9:15 AM)</b> An Overview of NSPOC</p> <p><b>Athene Gadsby, UKSA (9:15 AM - 9:30 AM)</b> UKSA, Space Domain Awareness and NSpOC - The Civil Perspective</p> <p><b>Sarah Beardsley, UKRI STFC RAL Space (9:30 AM - 9:45 AM)</b></p> <p><b>Bill Murtagh, NOAA SWPC (9:45 AM - 10:00 AM)</b></p> <p>Updating the NOAA Space-Weather Scales</p> <p><b>Kristen Reeson, BOM (10:00 AM - 10:15 AM)</b> MET5 contributions to space weather</p> <p><b>Maria Kuznetsova, COSPAR ISWAT and/or NASA CCMC (10:15 AM - 10:30 AM)</b> Successes, Challenges and Opportunities in our Quest to Improve Research-to-Operations and Operations-to-Research Pipelines</p> <p><b>Eric Adamson, NOAA SWPC (10:30 AM - 10:45 AM)</b> Advancements in Research to Operations and Operations to Research in the United States</p> <p><b>Andrew Monham, EUMETSAT (10:45 AM - 11:00 AM)</b> Ensuring Space Environment Sustainability at EUMETSAT</p>
11:00 AM - 11:30 AM	Morning Break
11:30 AM - 1:00 PM (Room: Exeter Suite 2)	<p><b>SDA/SSA/SST Panel</b></p> <p><b>Melissa Quinn: Invited Speaker (11:30 AM - 11:40 AM)</b> Managing Director, Slingshot Aerospace</p> <p><b>Harneet Kaur Sangha: Invited Speaker (11:40 AM - 11:50 AM)</b> Monitor Space Hazards: The National Space Operations Centre's Civil Space Protection Services</p> <p><b>Don Pollacco: Invited Speaker (11:50 AM - 12:00 PM)</b> At the sharp end: optical characterisation of the satellite and debris population</p>

	<p><b>Robert Massey: Invited Speaker (12:00 PM - 12:10 PM)</b> Dark and quiet skies: for astronomers and for all of us</p> <p><b>Leah-nani Alconcel and Gruffudd Jones (12:10 PM - 12:20 PM)</b> Rotulus: A 3U CubeSat Drag-sail Technology Demonstration for LEOsat Disposal</p> <p><b>Victor U. J. Nwankwo (12:20 PM - 12:30 PM)</b> Investigation of atmospheric drag effect on the trajectory of cataloged LEO objects and its implication for the safety of active satellites in the 25th solar cycle</p> <p><b>Panel and Q&amp;A (12:30 PM - 1:00 PM)</b></p>
1:00 PM - 2:00 PM	Lunch
<p>2:00 PM - 3:30 PM (Room: Exeter Suite 2)</p>	<p><b>Solar Science for Space Weather</b></p> <p><b>Lucie Green: Invited Speaker (2:00 PM - 2:15 PM)</b> Solar science and its application to forecasting coronal mass ejections</p> <p><b>Antonio Niemela: Invited Speaker (2:15 PM - 2:30 PM )</b> Heliospheric Wind and CME Evolution Modelling with EUHFORIA</p> <p><b>Anthony Yeates: Invited Speaker (2:30 PM - 2:45 PM)</b> An Outflow Equilibrium Model for the Solar Corona</p> <p><b>Natasha Jeffrey: Invited Speaker (2:45 PM - 3:00 PM)</b> Diagnosing the properties of solar flare energetic particles at the Sun and in the heliosphere</p> <p><b>Timo Laitinen: Invited Speaker (3:00 PM - 3:15 PM)</b> Solar Energetic Particle forecasting with physics-based tools: current status and future developments</p> <p><b>Sandra Chapman: Invited Speaker (3:15 PM - 3:30 PM)</b> A regular clock for the solar cycle variation of extreme space weather risk</p>
3:30 PM - 4:00 PM	Afternoon Break
<p>4:00 PM - 5:00 PM (Room: Exeter Suite 2)</p>	<p><b>Space Skills Panel</b></p> <p><b>Heidi Thiemann: Invited Speaker (4:00 PM - 4:10 PM)</b> Results of the 2024 Space Census and Space Training in the UK</p> <p><b>Mike Hapgood: Invited Speaker (4:10 PM - 4:20 PM)</b> Skills for space weather understanding and mitigation</p> <p><b>Alice Bunn: Invited Speaker (4:20 PM - 4:30 PM)</b> Future Skills Requirements</p> <p><b>Michaela Mooney (4:30 PM - 4:40 PM)</b> Orbyts: Research in School Partnerships</p> <p><b>Panel and Q&amp;A (4:40 PM - 5:00 PM)</b></p>

<p><b>5:00 PM - 6:15 PM</b> <b>(Room: Exeter Suite 2)</b></p>	<p><b>R202R Panel</b></p> <p><b>Alexa Halford: Invited Speaker (5:00 PM - 5:10 PM)</b> A framework for tracking progress: The Application Usability Levels and how they can enable the R202R process</p> <p><b>Richard Horne: Invited Speaker (5:10 PM - 5:20 PM)</b> May 2024 Magnetic Storm: Some Reflections and Suggestions for Future Work</p> <p><b>Luke Barnard: Invited Speaker (5:20 PM - 5:30 PM)</b> Improving space weather forecasts with heliospheric imager data assimilation</p> <p><b>Hazel Bain: Invited Speaker (5:30 PM - 5:40 PM)</b> Advancing Radiation Storm Models at NOAA's SWPC: Insights from Research to Operations to Research Process</p> <p><b>Sean Elvidge (5:40 PM - 5:50 PM)</b> Placing May 2024 in Context: Space Weather Impacts and the Importance of Communications</p> <p><b>George Millward (5:50 PM - 6:00 PM)</b> PyCAT: a Next-Generation Re-Imagining of NOAA/SWPC's CME Analysis Tool</p> <p><b>Panel and Q&amp;A (6:00 PM - 6:25 PM)</b></p>
<p><b>6:15 PM - 8:00 PM</b></p>	<p><b>Networking with Drinks Reception and Buffet</b></p>