

Meteorological Observing Systems Mini Conference
12th September 2024
University of Reading

Room 1L61 in the Brian Hoskins Building,
Department of Meteorology at the University of Reading.

Useful info: Map of Whiteknights campus (Meteorology is building 58)
https://static.reading.ac.uk/content/PDFs/files/Maps/Whiteknights_campus_map.pdf

We encourage participants to use public transport to travel to the meeting if possible.
If you need to drive then there is a pay and display car park on the other side of campus (car park 1A on the map). All other parking on campus is permit only.

10:00 – 10:10 Welcome

Session 1: Instrument development

- 10:10-10:30 Paul Stevens (**invited**) - Dropsondes from the Stratosphere: Targeted Observations Over Remote Regions Using Stratospheric Platforms
- 10:30-10:45 Giles Harrison - Miniature solar radiation data logger
- 10:45-11:00 Karen Aplin - A balloon-borne radioactivity detector for space weather and atmospheric ionisation measurements

11:00-11:20 Refreshments

Session 2: Meteorological Applications

- 11:20-11:40 Phil Rosenberg (**invited**) – Making observations for large field projects: The Wessex Convection Experiment (Wes Con)
- 11:40-11:55 Robert Plant - The Importance of Wind Sensor Averaging Times for Predicting Short-Range Dispersal
- 11:55-12:10 Bruce Ingelby - Use of SYNOP data at ECMWF
- 12:10-12:25 Marwa Almowafy - Which vertical wavelengths of gravity waves drive the QBO?
- 12:25 – 12:40 Mike Molyneux - WMO Global Surface Reference Network. First steps in the UK

12:40- 14:00 Lunch (a buffet lunch will be provided)

Session 3: Atmospheric electricity

- 14:00 – 14:20 Graeme Marlon (**invited**) - Lightning detection at the Met Office
- 14:20 – 14:35 Blair McGinness - Evaluation of Point Discharge Sensors as Atmospheric Electricity Instruments
- 14:35 – 14:50 Caleb Miller - Vertical profiles of atmospheric electricity and cloud properties in fog using a tethered balloon platform
- 14:50 – 15:05 Keri Nicoll - Unmanned aircraft for charged aerosol research

15:05 – 16:00 Posters and refreshments

Poster presentations:

- Sharon Jewell - Geographic Variations in the Impact of Marine Observations on Global NWP
- Matthew Fry - Evaluating Stratospheric Dropsonde Data: Insights from NWP Model Comparisons