

CTR Wilson Meeting on Atmospheric Electricity

University of Bath, 24 November 2022

Supported by Royal Meteorological Society, the Institute of Physics (D&E) and the International Union of Radio Science

All times in UK (London) time

- 0900-0910 *Opening of meeting room and welcome*
- 0910-0940 Martino Marisaldi – Chasing thunderstorm’s energetic radiation from space, aircraft, and ground
- 0940-0950 Justin Tabbett - Microscintillator radioactivity detector performance
- 0950-1000 Roy Yaniv - The effects of radiative fog on the atmospheric electrical field close to the surface
- 1000-1020 Caleb Miller - Changes in the potential gradient during fog in Reading, UK
- 1020-1050 *Break*
- 1050-1110 Keri Nicoll - Fair weather charge measurements with a small unmanned aircraft
- 1110-1120 Xuemeng Chen - A look at ion mobility: Influence of temperature and humidity
- 1120-1130 Karin Aplin - Re-engineering the programmable ion mobility spectrometer
- 1130-1140 Masashi Kamagowa - Comparison between water dropper and field mill data at Kakioka geomagnetic observatory
- 1140-1150 Blair McGuinness - Evidence for a Global Atmospheric Electric Circuit on Venus
- 1150-1200 David Reid - Experimental electric and magnetic field measurements of simulated components of motion in martian dust storms
- 1200-1230 *Break*
- 1230-1300 Jeff Lapierre - Earth Networks Total Lightning Network: A great operational tool and even better scientific tool
- 1300-1320 Yoav Yair - Targeted observations of TLEs and lightning from the ISS during the ILAN-ES campaign
- 1320-1330 Xin Zhang - Spaceborne observations of lightning NO₂ in the Arctic
- 1330-1400 *Break*
- 1400-1410 Meirion Hills - Development of ultra-high-speed image-based technology for the study of lightning and lightning interactions
- 1410-1420 Graeme Marlton - LEELA improving the Met Office’s lightning location capability: Case study June 30th Exeter
- 1420-1430 Xue Bai - Long-range lightning interferometry using coherency
- 1430-1450 Liliana Macotela - Ground-based VLF emissions observed in the frequency range 16-39 kHz: Campaigns 2006–2020
- 1450-1520 *Break*
- 1520-1530 Jozsef Bor - Short-term effects of the Hunga Tonga - Hunga Ha’apai volcanic eruption on the Global Electric Circuit
- 1530-1540 Giles Harrison - Global circuit response to El Niño from measurements in Shetland
- 1540-1550 Tamas Bozoki - 19 Days of the Global Electric Circuit
- 1550-1600 Jose Tacza - Main periodicities recorded at different SR stations
- 1600-1630 *Open discussion and adjourn*