CTR Wilson Workshop on Lightning Interferometry University of Bath, 12-14th November 2018 Sponsored by EarthNetworks

Room 2E3.4 in the Department of Electrical and Electronic Engineering at the University of Bath

Monday, Nove	ember 12 th	
10:00-10:30	Coffee and Tea	
10:30-10:45	Welcome and Introduction	
10:45-12:00	Michael Stock - Techniques for lightning interferometry: imaging, interpolation, nearfield	
	corrections, and deconvolution	
12:00-14:00	Lunch break	
14:00-15:15	Brian Hare and Olaf Scholten - 3D imaging with meter-level accuracy with the LOFAR radio telescope	
15:15-15:30	Tea and Coffee	
15:30-16:45	Ivana Kolmasova and Ondrej Santolik - Broad-band electromagnetic measurements of lightning radiation: Overview of IAP instrumentation and latest results	
16:45-18:00	Discussion	
Tuesday, November 13 th		
9:00-9:30	Coffee and Tea	
9:30-10:45	Mark Stanley - Broadband VHF Interferometry Inside Lightning Mapping Arrays	
10:45-12:00	Richard Sonnenfeld - Lightning channel conditioning and the measurement of currents on K-changes	
12:00-14:00	Lunch break	
14:00-15:15	Martin Fullekrug - Low Frequency Radio Interferometry	
15:15-15:30	Tea and Coffee	
15:30-16:15	Robert Watson - Measurement of tropospheric refractivity using interferometry	
16:15-16:45	Biagio Forte - Ionospheric irregularity detection with LOFAR	
16:45-17:30	Discussion	
19:00-21:00	Workshop Dinner	
Wednesday, November 14 th		
9:00-9:30	Coffee and Tea	
9:30-10:15	Zhuling Sun and Mingyuan Liu - Three-dimensional location technology for VHF Lightning Mapping Interferometer system in SHATLE, China	
10:15-11:00	Jeff Lapierre - Remote Measurements of Volcanic Plume Electrification Using a Sparse Network Technique	
11:00-11:15	Snacks	
11:15-12:30	Michele Urbani - Broadband VHF interferometry to study the origin of the high-energy radiation from lightning	
12:30-13:00	Workshop Summary	
15:00-18:00	Exploration of Bath	

CTR Wilson Meeting on Atmospheric Electricity University of Bath, 15th November 2018

Sponsored by Metrol, the Institute of Physics and the Royal Meteorological Society

Supported by the International Union of Radio Science

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1030-1100	Welcome Coffee
1100-1120	Torsten Neubert - Early results from ASIM on lightning and sprites
1120-1140	Dakalo Mashao - Altitude estimation of sprites observed in South Africa
1140-1200	Michael Kosch - Estimating the electric field within sprites
1200-1220	Jeff Lapierre - Observing regional variability in lightning NOx production rates
1220-1240	Corrado Cimarelli - The bright side of the plume - Volcanic plume electrification: observations and experiments
1240-1300	Richard Kacerek and Peter Campbell-Burns: UKMON – Amateur Citizen Science
1300-1430	Lunch break – Wessex Restaurant
1430-1450	Martin Airey and Graeme Marlton - Atmospheric Electricity in the United Arab Emirates
1450-1510	Clara Montgomery - The electric flight of the bumblebee
1510-1530	Kuang Koh – Bee MEMS
1530-1550	Michael Rycroft - Five important questions in atmospheric electricity
1550-1610	Karen Aplin - J.A. Chalmers and his legacy to atmospheric science
1610-1700	Posters and Tea

- Ellard Hunting Recurrent effects of agricultural chemicals on floral electric fields
- Jonathon Wilkinson Investigating the performance of thunderstorm forecasts over the UK and Europe using two high-resolution operational NWP models
- Adam Peverell Radio measurements of lightning and sprites with small arrays
- Simon Ghilain Optical sprite observations with camera and photosensor from the ground
- Xue Bai Lightning detection and location

Internet Access: eduroam or WiFi Guest_ (need registration)

Registration: https://www.ctrwiae.org/registration

How to get to Bath: https://www.ctrwiae.org/howtogettobath

How to get to the University of Bath: https://www.ctrwiae.org/howtogettobathuniversity

Parking permit: Email Ann Linfield at A.D.Linfield@bath.ac.uk

Accommodation in Bath: https://www.ctrwiae.org/accommodationinbath

Michael Rycroft Symposium

The Bath and County Club – Norfolk Room, Queens Parade, Bath BA1 2NJ 16th November 2018

1030-1100	Welcome Coffee
1100-1115	David Southwood – Early Days with Michael at Imperial
1115-1130	Grant Lewison – Memories of Michael
1130-1145	Kit Reeve – Iceland and Beyond
1145-1200	Paul Cannon - Reindeers, rockets and receivers
1200-1215	Sergei Sazhin – Our journey from Leningrad to Sheffield
1215-1230	David Nunn - The INTAS years
1230-1245	Richard Horne – Michael Rycroft – A Gentleman Scientist
1300-1430	Lunch break
1430-1500	Betty Lanchester – Oration on Michael Rycroft
1500-1515	Colin Price - The Schumann Resonances and Biological Systems
1515-1530	Torsten Neubert – Michael's influence on sprites and lightning
1530-1545	Norma Crosby – Interdisciplinary, Intercultural and International
1545-1600	Martin Fullekrug – Schumann Resonances, Sprites and the Radio Sky
1600-1615	Giles Harrison – Slowing from 8 Hz to DC
1615-1630	Karen Aplin – From CTR Wilson to Michael Rycroft: Atmospheric Electricity in Cambridge
1630-1700	Meet at the bar
1845-2030	Dinner at Woods Restaurant, 9/13 Alfred Street, Bath BA1 2QX

Internet access: BTWholeHome-NXN Password: FLFGTpyc3aVX

Registration: https://www.ctrwiae.org/rycroft

How to get to Bath: https://www.ctrwiae.org/howtogettobath

Accommodation in Bath: https://www.ctrwiae.org/accommodationinbath