

RMets Quarterly Journal: Celebrating 150 Years
Wednesday 13 September 2023, Imperial College London

- 10.00 Registration and Refreshments
- 10.30 **Welcome and Opening Address**
Rob Varley, Vice-President, Royal Meteorological Society
- 10.35 **QJ 150th Anniversary Celebrations**
John Methven, University of Reading and Andrew Ross, University of Leeds
- A Series of Science talks in association with landmark papers from QJ's history**
Chair: Prof Keith Shine, Regius Professor of Meteorology and Climate Science, University of Reading
- 10.50 **Rossby Waves in the Quarterly Journal**
Tim Woollings, University of Oxford
- 11.15 **Data Assimilation: A fusion of knowledge and the rise of the machines**
Dr Anthony McNally, Head of Earth System Assimilation, ECMWF
- 11.40 **Numerical Weather Prediction: The quest for accurate rainfall forecasts**
Prof. Brian Golding, OBE (he/him), Fellow in Weather Impacts, Met Office
- 12.05 **Influence of Entrainment and Mixing on the Evolution of Cloud and Rain Drops in Cumulus Clouds**
Alan Blyth, Professor, National Centre for Atmospheric Science (NCAS), University of Leeds, Steven Böing (he/him), Research Fellow, University of Leeds
- 12.30 Networking Lunch
- 13.30 **Publishing Panel Discussion**
Chair: Fran Morris, Post Doctoral Researcher Assistant, University of Oxford
- Paul Trevorrow, Publisher, Wiley
Anna Ghelli, Chair of Scientific Publishing Committee and Former Meteorological Applications Associate Editor, Royal Meteorological Society
Dr Alison Brown, Head of Publishing and Scientific Engagement, Royal Meteorological Society
Andrew Ross, Co-Editor in Chief, Quarterly Journal
- 14.30 Networking Refreshments
- Chair: Prof. Brian Golding, Vice-President, Royal Meteorological Society
- 15.00 **Advances in Climate Science through the Pages of the QJ**
Joanna D. Haigh (she/her), Emeritus Professor of Atmospheric Physics, Imperial College London
- 15.25 **The Stratosphere**
Mark P Baldwin, Professor of Climate Science, University of Exeter

15.50 **The Sea, The Sea – a fine tradition of oceanographic research in the Quarterly Journal**

Bablu Sinha (he/him), Senior Scientist, National Oceanography Centre

16.15 **Looking ahead Towards Celebrating 150 years of Remote Sensing Observations**

Dr Thorwald Stein (he/him), Associate Professor in Clouds, Department of Meteorology, University of Reading

16.40 Closing Remarks

16.45 Celebration Drinks Reception and Poster Session

17.45 Close of Conference

Invited Poster Presentations from:

Past L F Richardson Winners

1 - An Overview of Weak Signal-to-Noise Ratios in Climate Predictions

Dr Steven Hardiman (he/him), Senior Scientist, Met Office

2 - LFRic: Developing a model fit for the next 150 years!

Ian Boutle, Science Fellow, Met Office

3 - Urban-Scale Modelling for the WesCon Field Campaign

Kirsty Hanley, Senior Scientist, Met Office

4 - Representing Orographic Processes across Resolutions

Annelize van Niekerk (she/her), European Centre for Medium-Range Weather Forecasts

Early Career and Student Conference Prize Winners 2023

5 - Stochastic Data Adapted AMOC Box Models: Tipping in a simple AMOC model

Ruth Chapman, PhD Student, University of Exeter and Met Office

6 - Three Weeks More Summer? How Crowdsourced Observations Could Enhance Urban Climatology

Matthew Fry, Scientist – Observation Network Design, Met Office

7 - Climate Modelling the Atmospheric and Environmental Effects of Hydrogen

Hannah Bryant, PhD Student, University of Edinburgh

8 - Backwards Ray-Tracing Satellite Observations of Atmospheric Gravity Waves

Phoebe Noble, PhD Student, University of Bath, British Antarctic Survey

9 - Rapid Road Weather Hazard Forecasting Using Machine Learning

Alice Lake, Post-processing Applications Scientists, Met Office

10 - Using Expired Weather Forecasts to Supply up to 10 000 years of Data

Petr Dolezal, PhD candidate, AI for the research of Environmental Risk (AI4ER), University of Cambridge