



RSPP seminars



UNIVERSITY OF
LEICESTER

Prof Mathew Owens

University of Reading

“Observing coronal mass ejections in situ: Physics to forecasting”

In situ observations can only sample a single point within the extended structures of coronal mass ejections (CMEs) in the solar wind. But what in situ observations lack in spatial coverage, they make up for in detail, allowing unparalleled measurements of the magnetic field, plasma, electron, elemental composition and heavy ion charge states. Even when measured far from the Sun, composition and charge states provide valuable diagnostics of the coronal source conditions, providing insight into the formation and acceleration of CMEs. Conversely, remote observations of CMEs near the Sun may be able to provide probabilistic information about their subsequent properties in near-Earth space, which may aid in space-weather forecasting.

Wednesday, August 7th at 2 pm in George Porter LTA