Royal Astronomical Society

**RAS Harold Jeffreys Lecture**
**Dr Rhodri Davies**

Dr Rhodri Davies has made outstanding contributions towards our understanding of the solid Earth across a range of spatial and temporal scales, with a particular focus on the interaction between the convecting mantle and the over-riding tectonic plates. He has made important contributions towards understanding the origins of Large Low Shear Velocity Provinces in the deep mantle, the dynamics of subduction, mantle wedge dynamics and its relationship to island arc volcanism, the drivers of Earth's dynamic topography, and the dynamical mechanisms underpinning intra-plate volcanism. One of his primary strengths is his ability to cross discipline boundaries and pull together data and information from multiple fields to form robust and novel conclusions. A perfect example of this is his 2015 Nature paper, in which he discovered the full extent of Earth's longest continental volcanic chain, the intraplate Cosgrove volcanic track, which traverses eastern Australia from north to south. He is also the recipient of awards from the European Geosciences Union and he Australian Academy of Sciences, prizes for his teaching from Imperial College London and the Australian National University, and a best presentation award from the British Geophysical Association, underscoring his ability to deliver dynamic and engaging presentations. For these reasons, Dr Rhodri Davies is awarded the 2022 Harold Jeffreys lectureship.

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