

## **Dr Craig Magee: 2020 Fowler Award (G)**

Dr Craig Magee has made significant breakthroughs in two fields: understanding construction of magma plumbing systems and volcanoes in 3D; and the interaction of magmatic intrusions and faults in the Earth's crust. Many of his insights are derived from interpreting seismic reflection and borehole datasets.

His particular interests focus on how magmatic sheet intrusions inject into sedimentary basins, and how they influence continental break-up, rifted margin evolution, and natural resource accumulation. He has published widely on intrusions in the British and Irish Palaeogene Igneous Province and sedimentary basins offshore Australia.

He is tackling the problem of how magma moves laterally through Earth's crust and is accommodated by deforming surrounding rock, including in the Ethiopian Rift where magmatic and continental break-up activity is ongoing. His work on volcanoes has naturally led to public outreach activity including the Geologists Association Halstead lecture and an appearance at New Scientist Live. For these achievements, he receives the 2020 Fowler Award for Geophysics.

### **Short citation**

Craig Magee is awarded the 2020 Fowler Award for Geophysics for key breakthroughs in understanding the influence of igneous intrusions on faulting and evolution of sedimentary basins.