

Professor Richard B. Horne
Bio

Professor Richard Horne is an Individual Merit Scientist at the British Antarctic Survey, Fellow of the American Geophysical Union and Fellow of the URSI. He is known for his research on the propagation of plasma waves and wave-particle interactions. His most important work is to show that wave-particle interactions accelerate electrons to relativistic energies and are a major process in the formation of the radiation belts at Earth and Jupiter. He led the EU SPACECAST project to develop a real-time forecasting system to protect satellites from space weather and led the EU SPACESTORM project to mitigate the effects of extreme space weather on satellites. He currently leads the new Rad-Sat project to understand the transport, acceleration and loss of radiation belt particles. Richard has published over 170 research papers. He is former Chair of Commission H and is currently a member of the UK Space Environment Impact Expert Group that provides advice on space weather for the UK Government.