



School of Earth Sciences Seminar Series

**Stephen Parman, Associate Professor
Brown University**

“Tracing volatiles recycling into the mantle with noble gases”

The School of Earth Sciences is pleased to invite you to a Lecture in the SES Seminar Series given by Stephen Parman entitled “Tracing volatiles recycling into the mantle with noble gases”.

Noble gases (He, Ne, Ar, Kr, Xe) are powerful tools for tracing the deep cycling of volatiles in the mantle. Their isotopic compositions record everything from ancient mantle heterogeneities, to the origin and evolution of the atmosphere, to how volatiles are cycled back into the mantle. In this talk I will discuss high-pressure experiments measuring the solubility of noble gases in minerals and what these data tell us about the deep volatile cycle.

Stephen Parman is an associate professor at Brown University. He uses high-pressure experiments to explore the formation and evolution of the Earth and planets. His active research areas include noble gas cycling in the Earth and planets, formation and evolution of the Moon and Mercury, the origin of clay on Mars, the origin of anorthosites on Earth and the Moon, the growth of the continental crust and atom probe tomography.

VENUE Robert Street Building Lecture Theatre (G.16), Ground Floor
University of Western Australia, 35 Stirling Hwy, Crawley 6009

TIME 4:00 - 4:45pm Thursday 29 March, 2018

You are invited to join us afterwards for refreshments provided for sale by our local SEG Student Chapter in the Resource Room, Robert Street Building.