

**Dr Simon Morley**  
**British Antarctic Survey**

**'The Science of Climate Change in the Antarctic: a Marine Biological Perspective'**

This lecture will consider research in the Polar Regions from the perspective of a marine biologist, focusing on how the environment experienced by cold blooded marine animals has shaped their vulnerability to future climate. The extremely stable cold of the Southern Ocean has led to the evolution of many adaptations, including a reduced capacity to respond to elevated temperature. Dr Morley will describe how his work and that of the British Antarctic Survey has improved our understanding of the mechanisms underlying thermal tolerance and how this research will lead to better predictions of global patterns of biodiversity into the future.

Simon trained to be a marine biologist (BSc at Uni of Liverpool), fish biologist (MSc at Uni of Plymouth) and then a fish physiologist (PhD Uni of Liverpool). After a postdoc investigating the combined effect of temperature and oxygen on the life history of a bryozoan, he moved to the British Antarctic Survey in 2001. Simon has spent two full years as a fisheries scientist on the sub-Antarctic Island of South Georgia before concentrating on physiological studies of marine ectotherms on the Antarctic Peninsula.



**Tuesday 18<sup>th</sup> November**

**12-12.45 in the Biology Lab (downstairs in  
Science) at BWS**