

The Jeremiah Horrocks Autumn Lecture

15 million degrees: Journey to the centre of the Sun

The Autumn 2017 Jeremiah Horrocks Lecture by Professor Lucie Green

**Thursday 28th September 2017
6.30pm – Darwin Lecture Theatre
University of Central Lancashire
FREE EVENT**

Abstract

110 times wider than Earth; 15 million degrees at its core; an atmosphere so huge that Earth is actually within it: come and meet the star of our solar system.

Light takes eight minutes to reach Earth from the surface of the Sun. But its journey within the Sun takes hundreds of thousands of years. What is going on in there? What are light and heat? How does the Sun produce them and how on earth did scientists discover this? Join Lucie Green for an enlightening talk, taking you from inside the Sun to its surface and to Earth, to discover how the Sun works, how a solar storm can threaten the modern technology that society relies on and more of the latest research in solar physics.

Lucie is a Professor of Physics and a Royal Society University Research Fellow based at the Mullard Space Science Laboratory, UCL's Department of Space and Climate Physics and studies activity in the atmosphere of our nearest star, the Sun. In particular, looking at immense magnetic fields in the Sun's atmosphere which sporadically erupt into the Solar System. If these eruptions reach the Earth they can drive major space weather events. She is interested in how the magnetic configuration of the eruptions relates to geomagnetic activity and what this means for those living in the UK.



Lucie en route to the Roque de los Muchachos Observatory.

**For more information and to book please see:
<https://jhiautumnlecture2017.eventbrite.co.uk>
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