

LANCASTER ROYAL GRAMMAR SCHOOL

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Mr A Talks Head of Geography

4th October 2019

Dear Parent/Guardian

I am writing to inform you of an opportunity for your son to attend an U6 Student Conference on Tectonic Hazards in Manchester. The conference is on Wednesday 27th November from 10.30 a.m. – 15.30 p.m. and costs £25.00 per student. This covers the cost of the conference (£20.00) and travel by school minibus (£5.00). We shall leave from the Science carpark at 08.40 a.m. and return at 17.30 p.m. depending on the traffic. A packed lunch or money for lunch would be needed.

10.30am Registration opens

11.00am Welcome and introductions – Sue Warn

Session timings TBC

Session TBC – Dr. Paul Cole (LDN only)

Paul's talk will focus around his research. He is the Associate Professor of Volcanology at the School of Geography, Earth and Environmental Sciences, Plymouth University.

Earthquake impact (in Megacities) - it's all about structure

– Dr. Martin Degg

During this talk, your students will explore the importance of both physical socio-economic and political structures and their influence on risk from tectonic disasters in mega cities.

Faulty plates and cracked crusts – Cameron Dunn

Underpinning your understanding of tectonic hazards and disasters, is a detailed grasp of plate tectonic theory and the processes that cause plate motion and generate hazardous events. This session will explore these processes, within the theoretical framework of the plate tectonics paradigm. Cameron will highlight why some hazardous places are especially vulnerable due to their physical geography, and how this increases risk for people and their property.

Impacts of recent earthquakes in New Zealand – Professor David Petley

Your students will study the impacts of recent earthquakes in New Zealand (Christchurch Kaikoura) and the concerns about the future (Alpine fault, Wellington Hikurangi subduction zone and another 'black swan' like Christ church).

Why do some hazardous events morph into human disasters? – David Redfern (NOTTS / MCR only)

This talk will examine the relationships between a 'hazard' and a 'disaster' and will focus particularly on the importance of

place (including physical factors) and development in understanding disaster impact, vulnerability and resilience. David will illustrate these concepts with reference to a range of tectonic events that have taken place in recent decades, including contemporary ones.

Rumblings in the North Atlantic - Iceland's volcanoes and their hazards – Professor Fiona Tweed

This talk will outline key aspects of Iceland's plate tectonic setting and will specifically focus on Iceland's volcanic activity. Events from the last ten years will be used as a lens through which to view the diversity of hazards and impacts created by some of Iceland's historic eruptions. Beneficial aspects of Iceland's tectonic context, such as volcano tourism and geothermal energy, will also be highlighted. Key challenges associated with managing risks from Iceland's volcanic hazards will be considered, particularly in the context of research on the potential impacts of future volcanic eruptions.

Concepts, theories and models – Sue Warn

Your students will explore some of the key concepts models and theories involved in a study of tectonic hazards and focus on how to use them to enhance the quality of examination responses. Sue will link key concepts models and theories to specific case studies.

3.45pm

Conference ends

The conference is taking place at King's House, Manchester, King's Church, Sidney Street; Manchester, M1 7HB

I have provisionally booked 15 places for this trip which I hope will be available for us.

If your son would like to take part, I would appreciate you paying BY WISEPAY before 11th **October 2019**.

Thank you for your interest. If you would like to email about this conference then my email address is: atalks@lrgs.org.uk

Yours faithfully

Andrew Talks (Head of Geography)