

Science in the Quad

AUTUMN PROGRAMME 2014

All events are in the **MacRobert Hall, Robert Gordon's College, Schoolhill, Aberdeen at 7:00 pm** on the dates listed and are **FREE** to attend.

**September
Mon 8th**

Dr Peter Clive, Sgurr Energy

"If you cannot measure it then you cannot improve it – the challenge of using the wind effectively"

The wind is always trying to break your wind turbine, and they are in places where it is not easy to fix them! The need to understand the wind conditions which turbines must endure, combined with the need make predictions to fulfil the requirements for financing projects, is driving the achievement of degrees of precision and detail in wind measurement and assessment in the wind industry not envisaged elsewhere.



**October
Mon 6th**

**Dr Francisco Perez-Reche,
University of Aberdeen**

"Mathematics to predict and fight epidemics"

Predicting and controlling the spread of infectious diseases is a daunting challenge in an increasingly connected world. Come and discuss how mathematics and tools from physics can help fighting epidemics.



**November
Mon 3rd**

**Dr James Njuguna,
The Robert Gordon University**

"Structural Nanocomposites – advanced new materials for future lightweight structures"

The increasing need for high performance structures, in the energy and transport industry, demands continuous development of new engineering materials with high strength to weight ratios. Find out about a case study of impact resistance and crash management structures for automotive/motorsport/aerospace applications.



**December
Mon 1st**

**Dr Lyndsay Fletcher,
University of Glasgow**

"Solar Storms and Northern Lights"

Why does activity on the Sun cause the nocturnal displays of northern lights, familiar at these latitudes? The origin of the northern lights illustrates how the magnetic influence of our nearest star reaches out to affect us here on Earth, in both benign and threatening ways.



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Where and When

Held on Mondays near the start of each month. All sessions begin at 7:00pm at Robert Gordon's College in the centre of Aberdeen.

How it Works

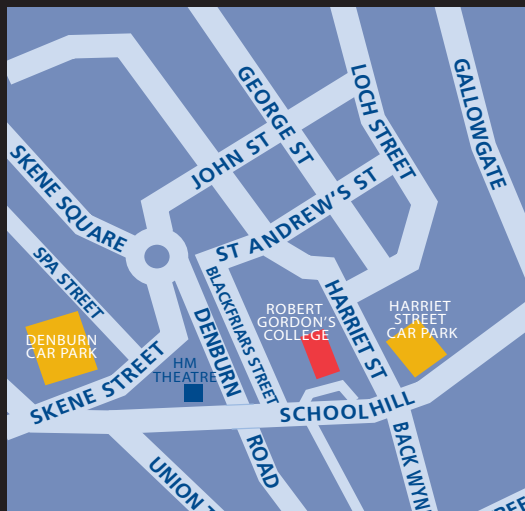
- 7.00pm We begin with a short presentation from the speaker
- Chaired, open discussion involving the speaker and audience
- 8.30pm Close and thanks

What's the Cost?

All sessions are **FREE** and open to everyone. Refreshments will be on sale. Speakers usually give up their time for free.

This programme is supported by the Institute of Physics in Scotland and Robert Gordon's College. For further information go to <http://www.rgc.aberdeen.sch.uk/news/filter/science>.

Science in the Quad acknowledge the support of the University of Aberdeen in launching the series. Details of café discussion series and other events organised by the University of Aberdeen can be found at www.engagingaberdeen.co.uk



For further information please contact Stuart Farmer: S.Farmer@rgc.aberdeen.sch.uk

Unfortunately there is **no parking on site**, however there is **parking available surrounding the venue**.

Robert Gordon's College is a charity registered in Scotland, NO SC000123